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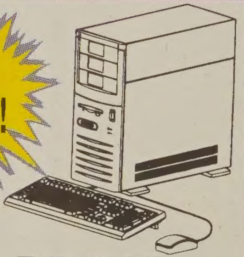

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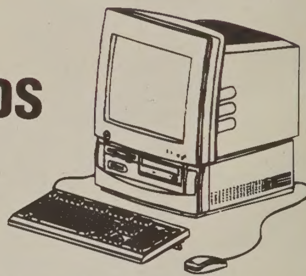

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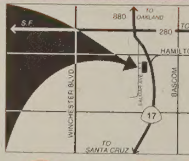
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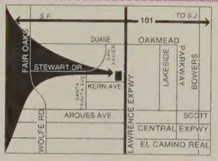
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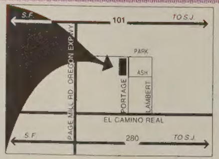
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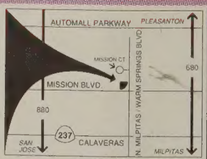
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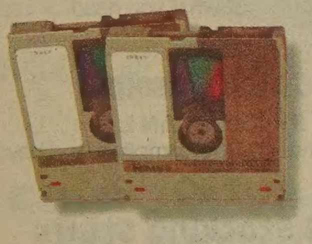

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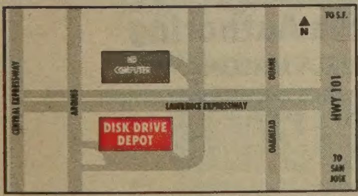
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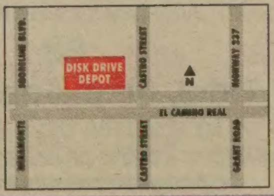
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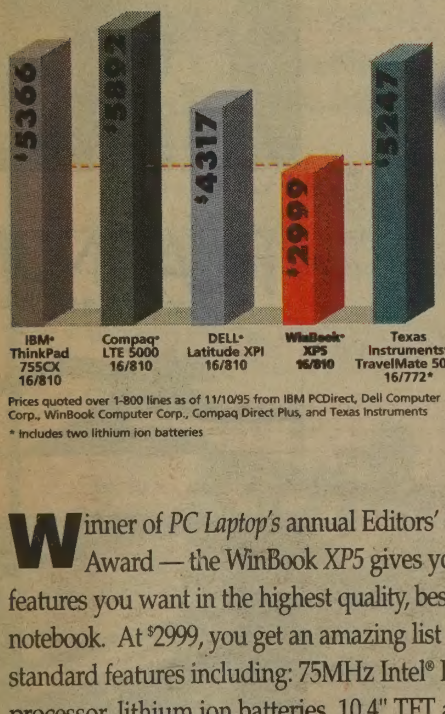

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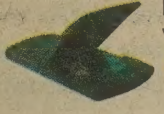

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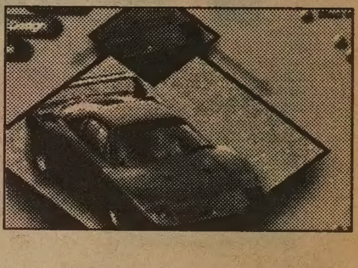

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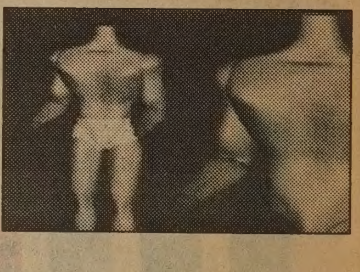

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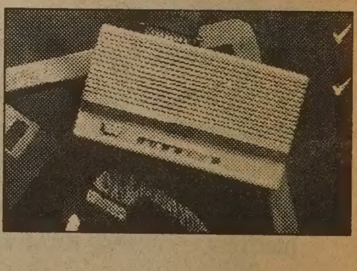

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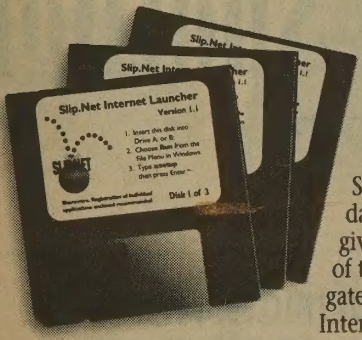

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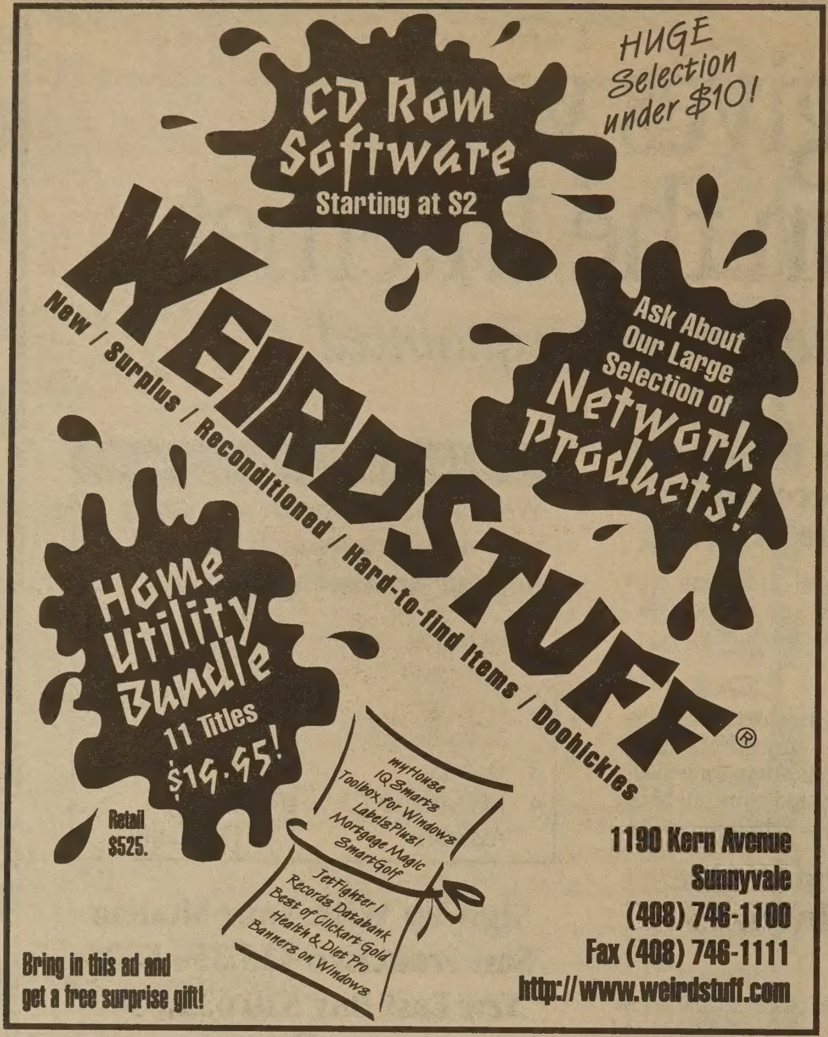
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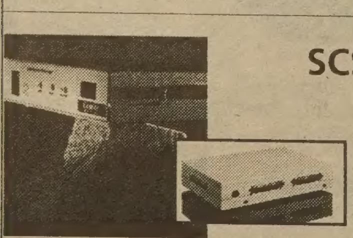

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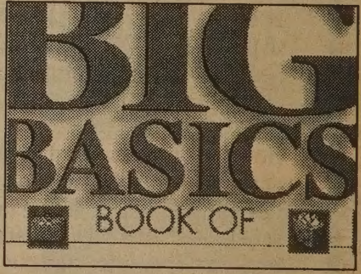

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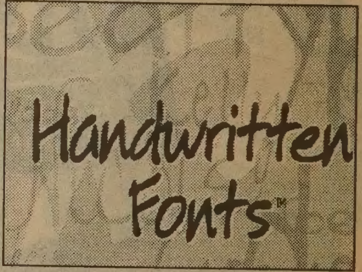

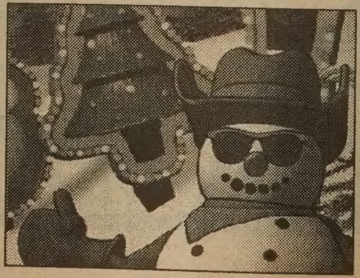

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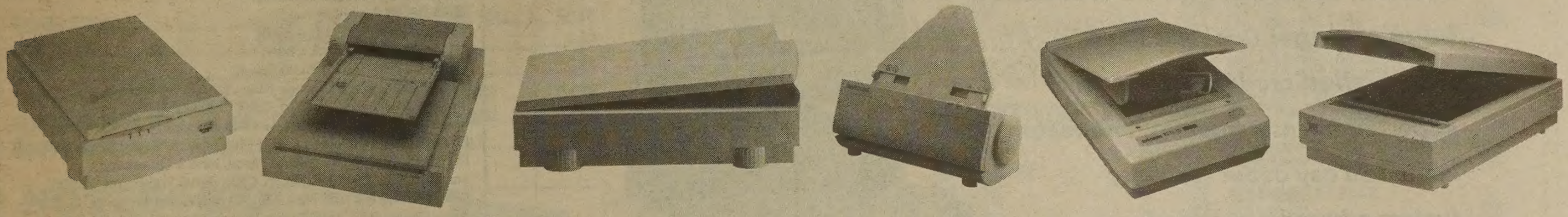

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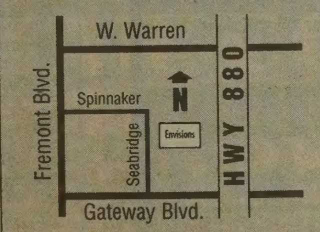

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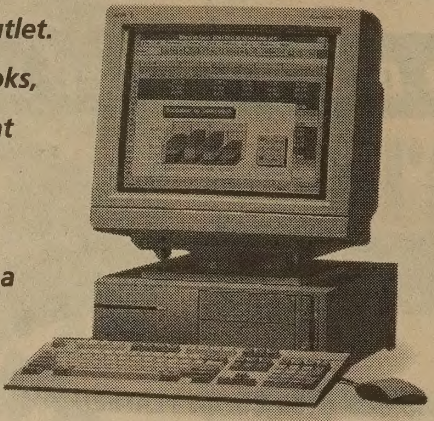

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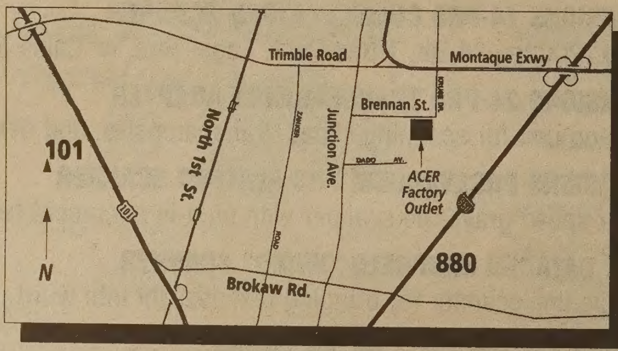

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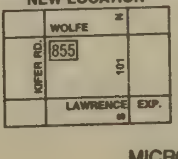

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Contributors
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Nick Anis is a fourteen-year computer industry veteran and the author of two dozen computer books. A computer instructor at Mt. San Antonio College, he acts as producer of the Internet World Awards, the Dvorak PC Tele-communications Excellence Awards, and the I-NET show. Nick and John C. Dvorak are currently co-authoring a new edition of *Dvorak's Guide to PC Telecommunications*, scheduled for release during the first quarter of 1996. Nick's articles have appeared in *PC Magazine, Computer Shopper, PC Sources, Boardwatch Magazine, Newsbytes*, and others.

Craig Menefee started working with microcomputers in the days of the S-100 bus, in the 1970s. The author of three books on computer subjects and longtime computer writer and journalist, he is currently working with Lenny Bailes on *Byte's Guide to Optimizing Windows 95*, scheduled for release in the first quarter of 1996. His articles have appeared in *Computer Shopper, DOS World, Boardwatch Magazine, Newsbytes, Internet World*, and others.

Jonathan E. has worked with desktop multimedia since 1988. His USPS mailing address is c/o SoundSwell, 54 29th St., Richmond, CA 94804. His email address is *jeve@well.sf.ca.us*.

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Tony Reveaux, a San Francisco-based consultant, writes the "MediaScan" column in *Film/TapeWorld*, and is the West Coast correspondent for *Computer Video*. He can be reached at (415)648-5958 or *TonyR10862@aol.com*.

Douglas J. Nakakihara (*djn@ix.netcom.com*) is a full-time CPA and owner of Electrical Language, a computer videographics company based in Simi Valley, CA.

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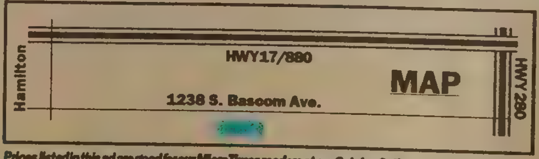

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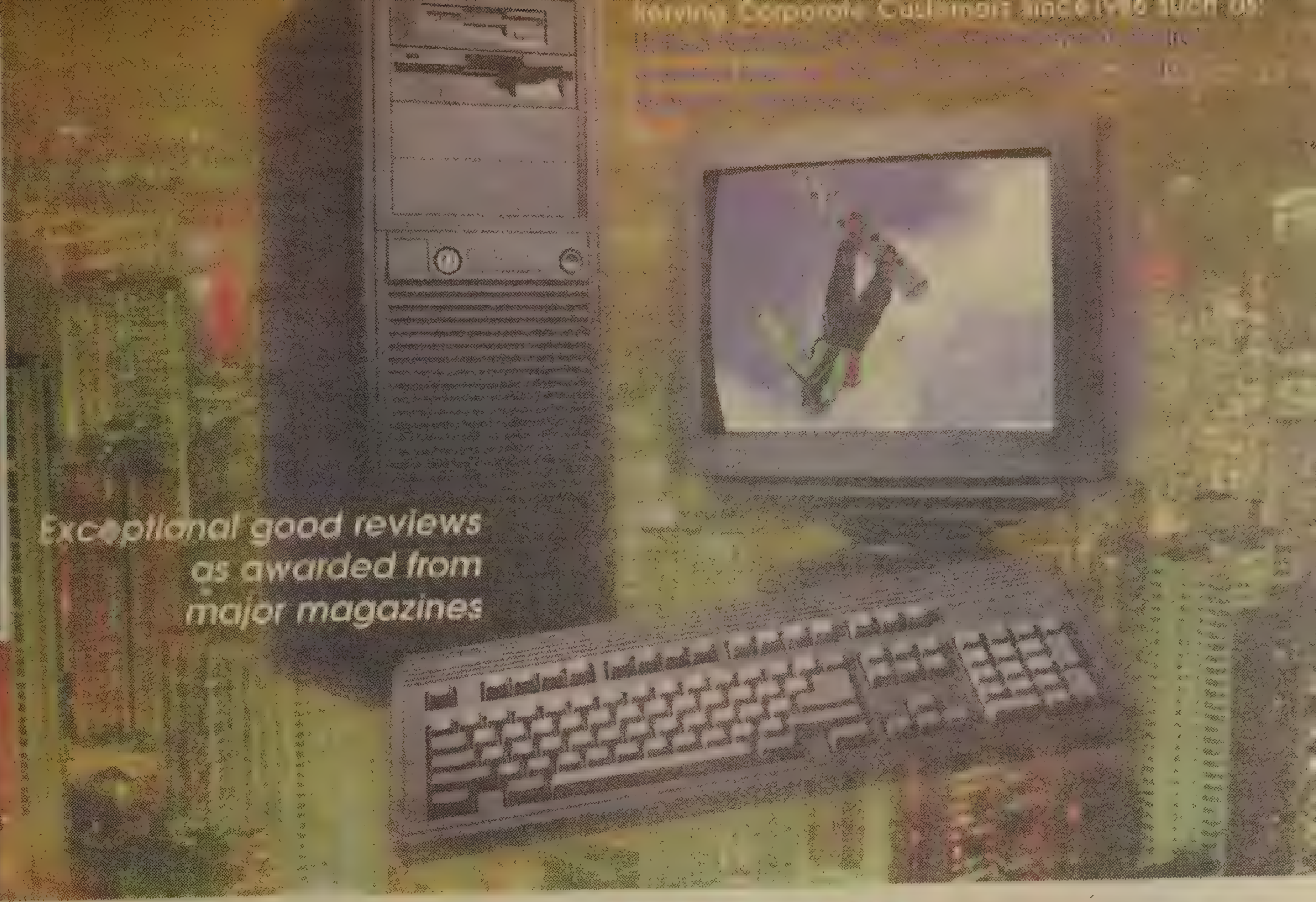

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Fun And Games: The 3rd Annual Holiday Gift Guide

Dangerous Games

Our Small Office/Home Office Columnist Suggests Diversions That Can Refresh You, Reinvigorate You, And Eat Up Your Entire Day

By Birrell Walsh

You've written and rewritten that crucial paragraph four times. You think you should write it again—something is off about it—but the letters are beginning to run together and blur. Your left brain is toast. You cannot look at one more piece of text.

You could throw the computer through the window and join the fisherfolk on the Gulf Coast. Or you can take a break of some sort.

The Future And The Past

As a small-office operator, you know that virtual reality is coming fast. But just what does it look like when it's done right?

Classical scholar George Osmun has found one example. He recommends you take a trip to San Francisco's de Young Museum in Golden Gate Park. There you will see an unparalleled virtual reality exhibit, cocreated on a Silicon Graphics platform by Carnegie Mellon University and the Museum. It is called "Virtual Pompeii," a work-in-progress reconstruction of daily life in Pompeii just before the unfortunate incident with Vesuvius. If you are fortunate, you will have Dr. Louise Chu (assistant to the curator of Ancient Art) to guide you, as we did.

The first part of the exhibit is the temple of Isis ("I am Nature, the universal Mother, mistress of all the elements, primordial child of time, sovereign of all things spiritual, queen of the dead, queen also of the immortals, the single manifestation of all gods and goddesses that are," she says to Lucius Apuleius). With glasses, you get to see a full screen projection of the temple in 3-D. If you walk near the priest, you can hear him chant in Latin. If you draw very close, you can hear him in English. Another priest plays the double flute hauntingly while you virtually tour the feast room decorated with Pompeii's famous wall paintings. You can try the headset and trackball yourself and take your own virtual tour of the temple that fateful morning in the year 79.

Temple of Isis, Pompeii from *Virtual Pompeii*. Photos courtesy M.H. de Young Memorial Museum.

If you have ever wondered just what VR can do, this is a chance to see it at full use, cheap. The exhibit runs until January 7.

Keeping The Little Sim-People Happy

A trip to the museum takes a day. If you want a *big* break, consider SimTower.

Matt Elmore is a professional announcer. A regular on San Francisco's public radio station KQED-FM, he is also the voice of KQED-TV. His warm ursine inflection is in demand; he has a free-lance business voicing copy as well.

He therefore has little time to fritter away. But as a friend, he volunteered to take a look at Maxis's new Windows version

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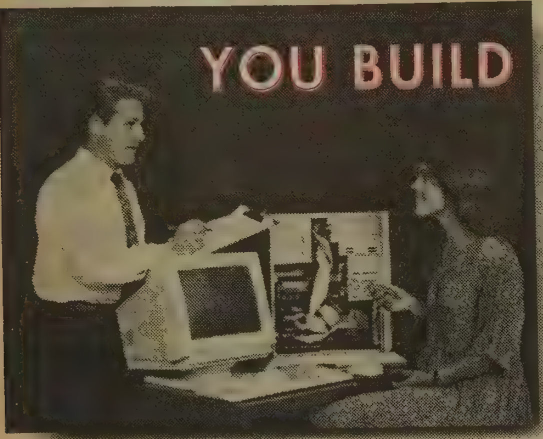

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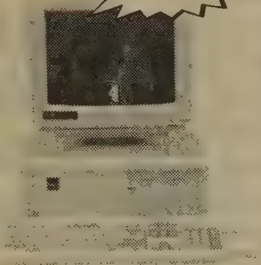

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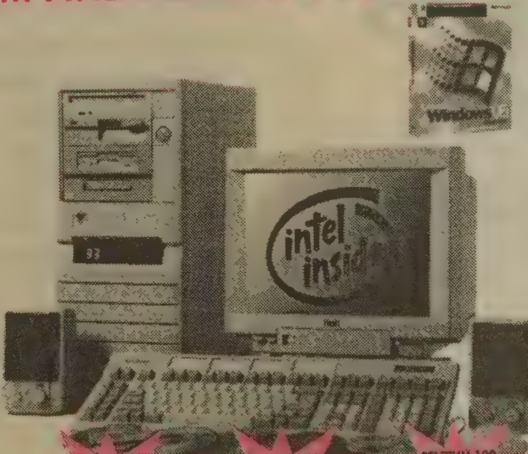

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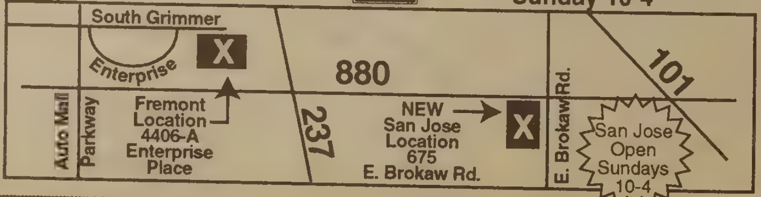
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Dangerous Games *continued...*

of SimTower. This Macintosh version won a 1994 SPA award as best simulation of the year, and to hear Matt's report, it deserved it.

Matt and his son Nick are veterans of Maxis's simulated worlds and fond of them. They have become masters of the various SimCities. When they first started SimTower, they thought they were getting a small subset of the problems of running a city.

Not so, it turns out.

SimCity has a certain elasticity, because it deals with a whole ecology, and a proper ecology has alternative paths. SimTower has much less give in it. In this game, you are running a business. The business is huge, but it has the same unforgivingnesses that a business of any size has. You make it, or you crash.

Your mission (should you decide you accept) is to build a working business tower. Beginning with a wee, short thing, you must move it to five-star status. That involves getting one hundred stories and (I kid you not) a cathedral on top.

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You cannot use the Ramses II strategy and simply build 100 stories with forced labor and plop a temple at the summit. You must make a working business of the tower.

Matt reports, "If you expect your building to grow in size, becoming the self-contained, self-reliant, city-within-a-city that a tower is, you need to keep your occupants happy. This game tracks time by changing from day to night, weekday to weekend, and fair weather to foul. As buildings fill with people at the beginning of a work day and empty at night, your elevators need to be plentiful enough and available enough to handle the traffic. You're given the ability to schedule your elevators so that they are readily available when they're needed most to move your people around.

"Again, you can only expect to keep tenants that are happy, so if they have to wait for extended periods of time to get to their destination, they won't be too happy. Fortunately, you're warned when you're approaching that point: The crush of humanity waiting for the next elevator car turns from black to pink with irritation, and from pink to red with rage.

"Should you get far enough along that you put in a movie theater, you'll want to make sure that show times don't coincide with the beginning or ending of a workday. You'd wind up with a lot of bright red people waiting for the elevators. If your building is tall enough, you'd be well advised to think seriously about express elevators (at $400,000 apiece).

"Similarly, tenants don't like 'noisy' neighbors, so you need to pay some attention to the placement of elements within your structure. No fast food restaurants next to condos, for example. You also have the capability to name businesses as well as individual tenants and to fol-

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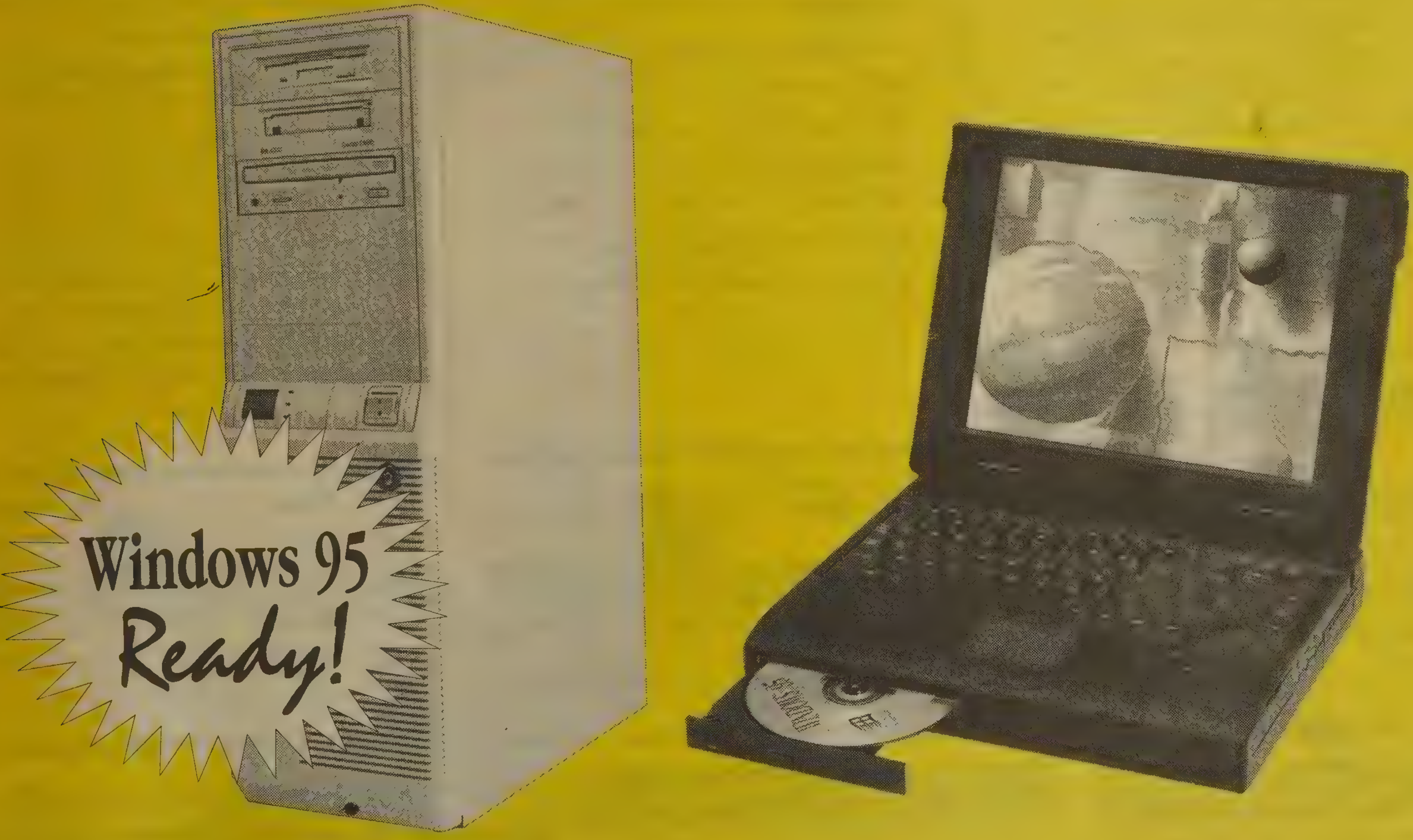

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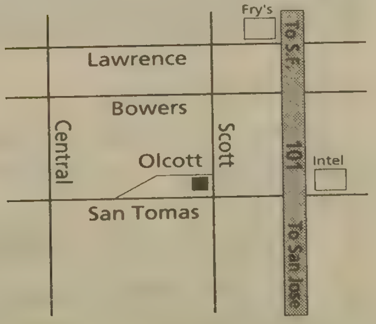

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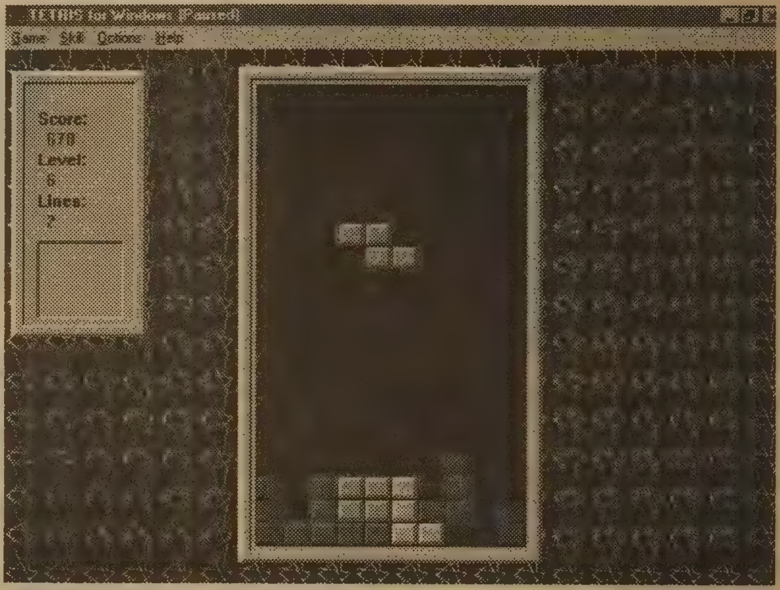

low them throughout the building."

Matt's experience resembles that of another Sim veteran, Suvid Tubtimcharoon. He had a record of mastering Maxis's products in short order. He expected to conquer SimTower in a few hours. He found that SimTower was different—a "creation *ex nihilo*," a work of art rather than the contest with pre-made challenges of other Maxis simulations.

He solved the game all right, constructing a block-square tower with the requisite cathedral. But it took him several days of hard work. "When you play this game, there is no other challenge, no disasters or whatnot—just you working to build your empire. It's an art form. If there are problems, *you* made them.

IF YOU HAVE NOT EVER PLAYED TETRIS, REMEMBER: LIKE PLATO'S CAVE, IT IS FASCINATING AND TRAPS THE SOUL.

"The game as a whole forces you to think differently. SimTower looks boringly simple; but this game drew more imaginative, strategic creativity from me than any straightforward simulation."

The message: SimTower is as hypnotic as Tetris, but *huge*. If you start this game, you will be at it until you complete your tower.

Microsoft Entertainment Pack

It is curious how much it can help to turn from a primarily textual or numeric task to one which involves the other brain centers. The smoking part of the cerebrum can cool and reconstitute itself. Neglected sorts of intelligence get a needed boost.

Remember these excuses as you while away your work time with these games. You need a bit of time away from your tasks, or you will ruin them, and they will ruin you.

Microsoft's Entertainment Pack is a one-disk collection of games that have stood the test of time. Many of them were released by other

continued on page 260

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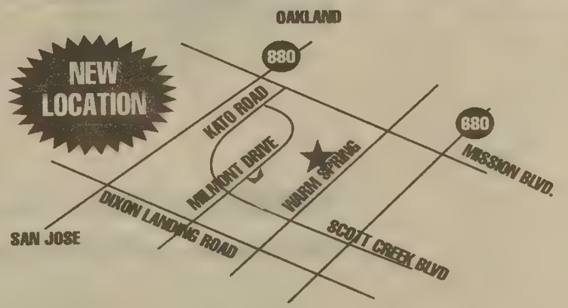

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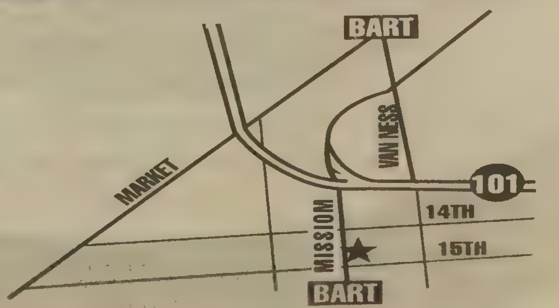

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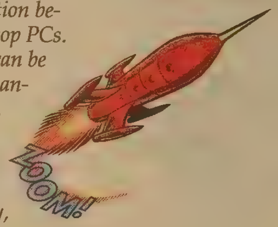

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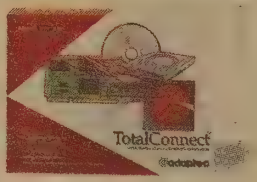

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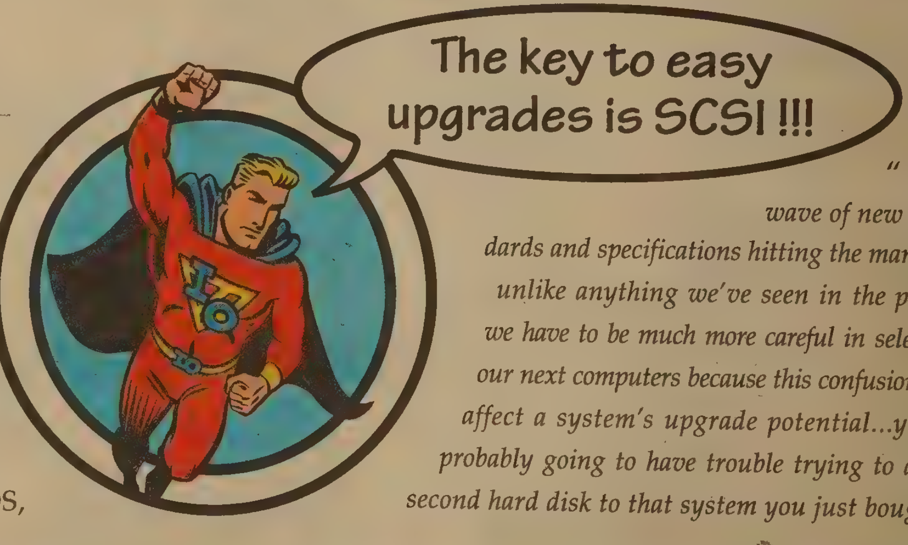
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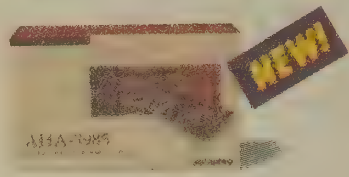

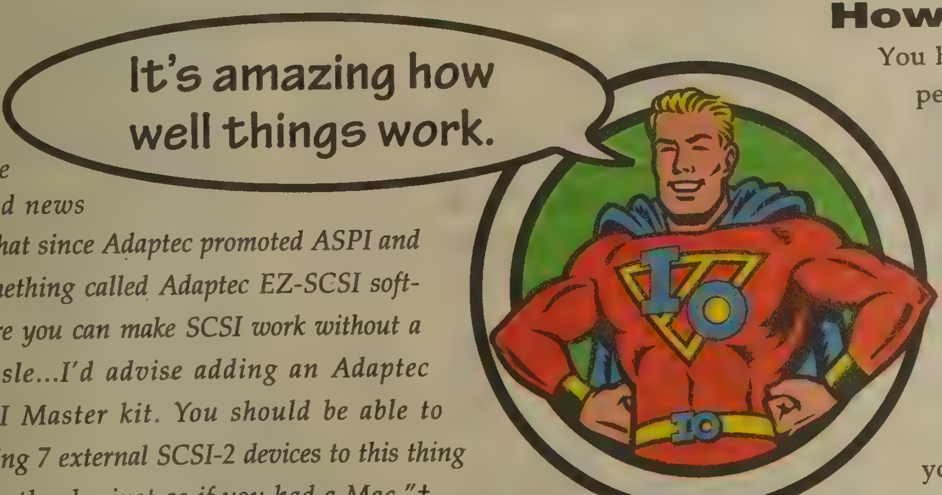
It's amazing how well things work.
IO
IO

The good news is that since Adaptec promoted ASPI and something called Adaptec EZ-SCSI software you can make SCSI work without a hassle...I'd advise adding an Adaptec PCI Master kit. You should be able to string 7 external SCSI-2 devices to this thing effortlessly, just as if you had a Mac."†

July 1995 PC Magazine

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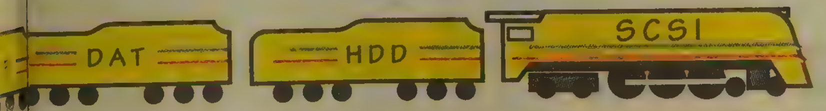

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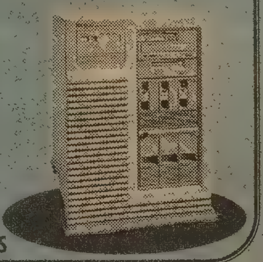

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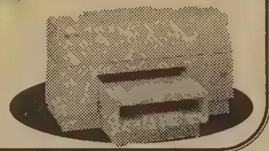

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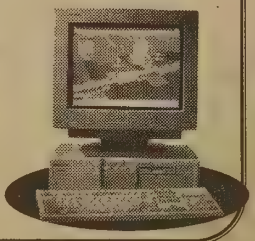

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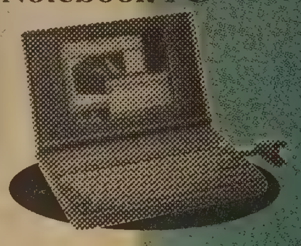

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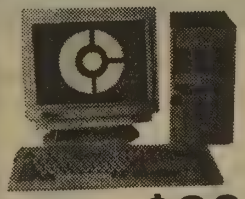

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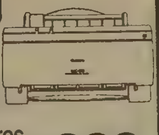

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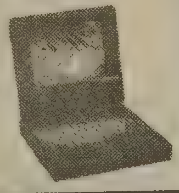

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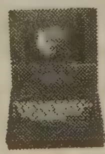

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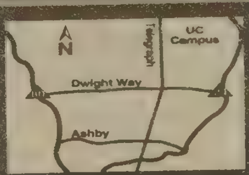

Microsoft Office FOR Windows 95

Conversion Of A Lotus Loyalist

By Woody Liswood

After many loyal years, I have left the world of Lotus, giving up AmiPro, 1-2-3, and Freelance to join the world that uses Microsoft Office—Word, Excel, and PowerPoint.

With just a couple of nit-picking exceptions, MS Word is now a very capable word processor. It took me less than an evening to figure out how to do the tasks I did under AmiPro. By the end of the evening I was a confirmed Word user without turning to the manuals. Everything I needed to find I was able to either figure out through the menu or look up in online help.

I've always felt that Excel was a capable spreadsheet. Although I still like 1-2-3, I prefer to stay with a suite of software rather than the individual programs. I transferred over *all* of my workaday spreadsheets with no problems.

Moving to PowerPoint for Windows 95 was also easy to do. It works like other business display graphics programs, and everything I needed was easily available through the menu structure.

As far as the databases go, Lotus Approach is a great menu-driven database and I would still recommend it. (Access is still in beta and I will take a longer look at it when the finished version is available.)

> This is the first of the "suites" of software rewritten for Windows 95. It certainly works as advertised.

Office 95 comes with Schedule+. This Personal Information Manager (PIM) is adequate. If you don't already use one, this one will fill your basic needs. I switched so that I could stay within the Office 95 suite, but Schedule would not have been my first choice.

From a pure "user" perspective, I did not see many major differences between the Windows 95 version of Office and the Windows 3.1x versions. Both versions work. There are, however, many subtle differences in the Windows 95 version which, in my opinion, make the use of Office easier and more intuitive under Windows 95 and might, when taken as a whole, be a good reason to upgrade to Windows 95.

Under Windows 95, there appear to be more multithreaded applications. When you are printing, for example, things work faster and you get back to the document faster than before. In partic-

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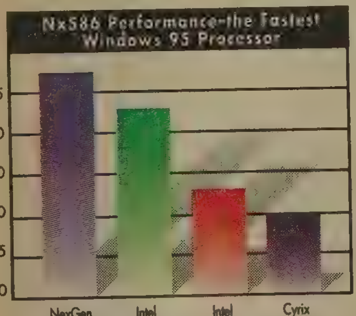

(Norton Utilities SysInfo 32 for Windows 95, 32-bit Applications)
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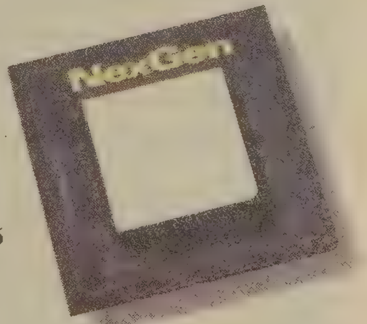

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Microsoft Office *continued...*

From a pure "user" perspective, I did not see many major differences between the Windows 95 version of Office and the Windows 3.1x versions. Both versions work.

ular, I also like AutoCorrect, the new spell checker. It highlights the misspelled words as you enter them, so you can correct as you go along, rather than wait until you are done and then correct everything. Of course, you can still work this way if you wish. I know, for me, that the majority of the spelling errors are just typing errors, and it is easier to correct them as I go along rather than wait until later. AutoCorrect works throughout Office 95 programs, not just Word 95.

The drag and drop between documents works as you would expect. You can copy anything from any of the documents, including the database, and drop it into another document. I found it easier, for example, to create a table in Excel, then drop it into Word or PowerPoint, than to create the table in Word or PowerPoint.

This is the first of the "suites" of software rewritten for Windows 95. It certainly works as advertised. If you are wondering if you should switch to Windows 95, go ahead, get Office 95, and have some fun. ■

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RESOURCES:

Microsoft Office for Windows 95, $499
Microsoft Corp.
1-800-426-9400

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○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference

Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ **My Budget For System Is** ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

10 or More ○ Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: SYSTEM CONFIGURATION: ○ INTEL ○ AMD ○ CYRIX ○ NEXGEN ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz & SPEED: ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ External
○ IDE ○ SCSI
CD ROM TITLES INCLUDED:
○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 4X ○ 6X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS
○ Less Than 25W
○ 25 to 50W
○ 50 to 75W
○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery
○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

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STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner ○ Zip Drive

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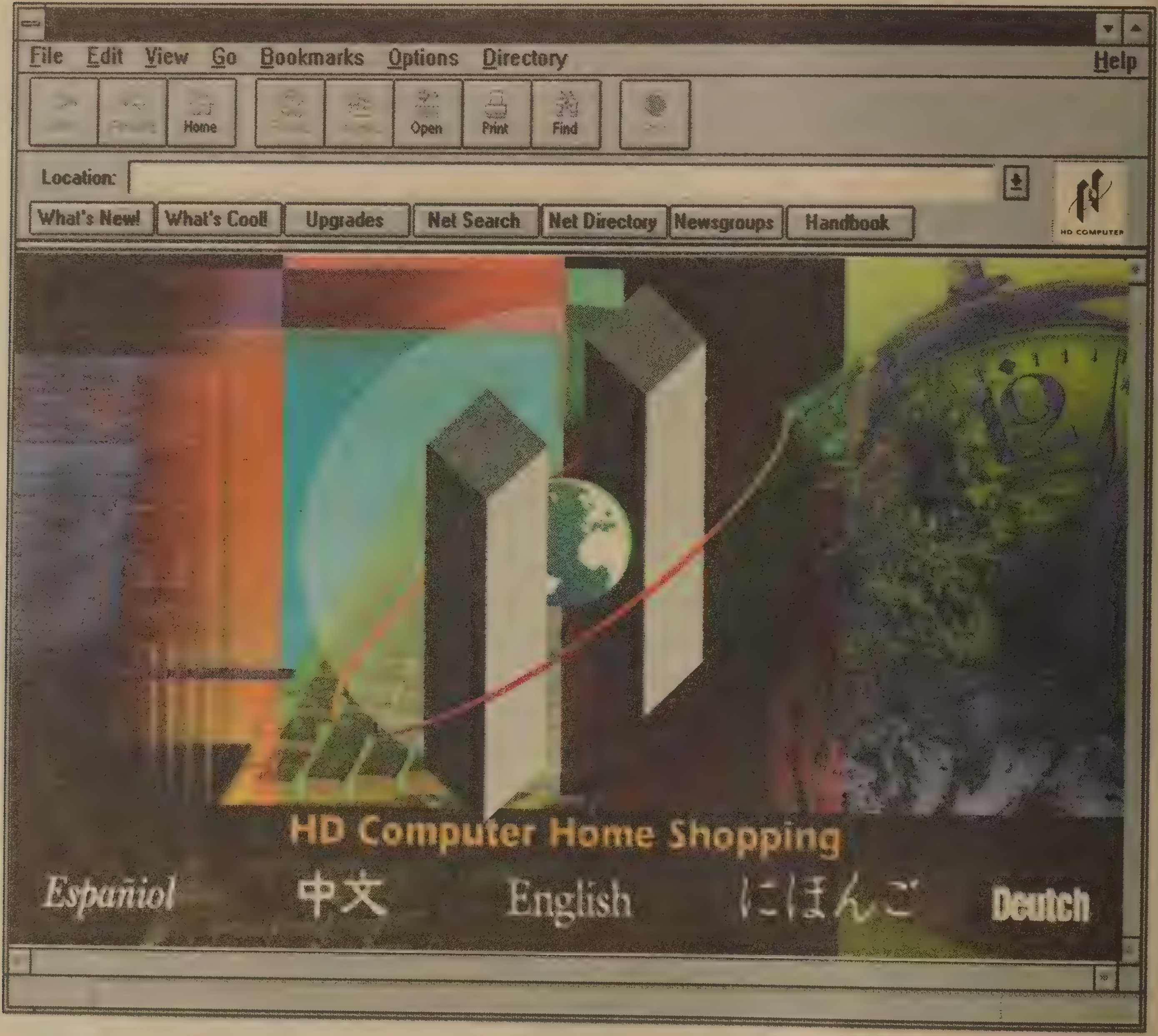
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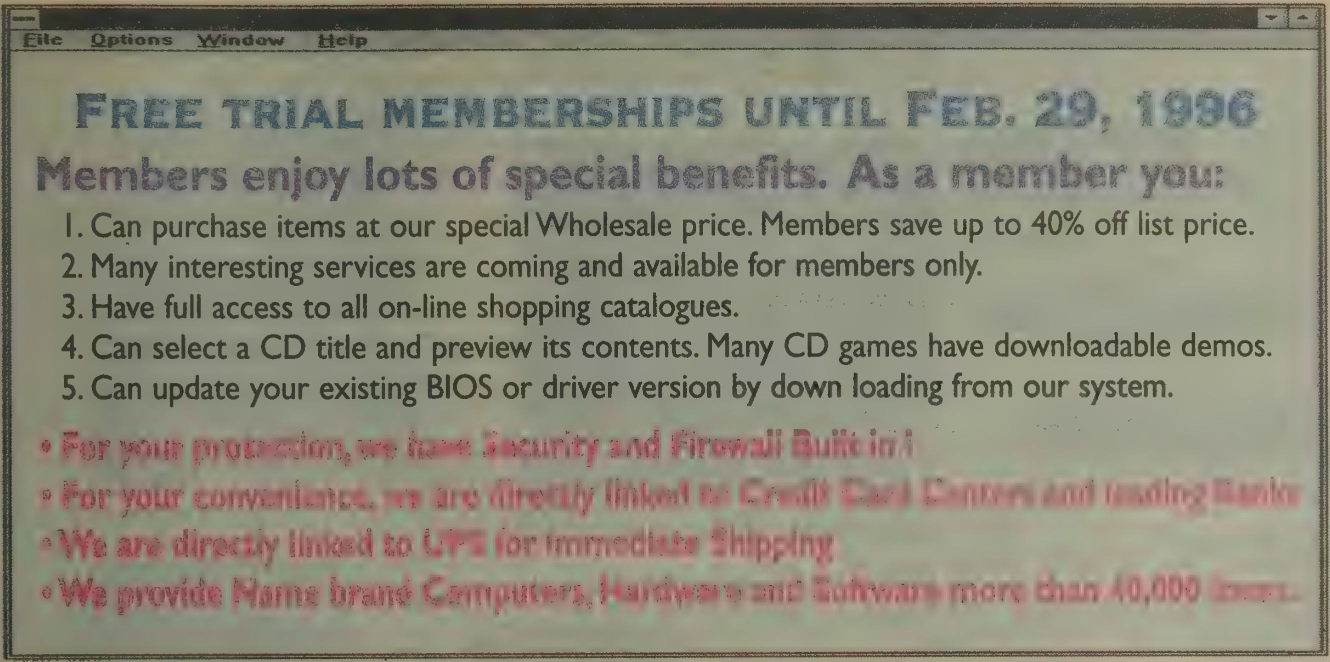

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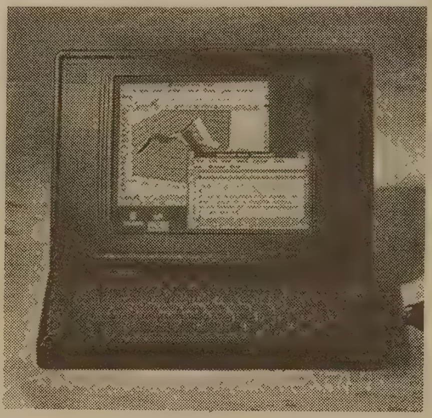

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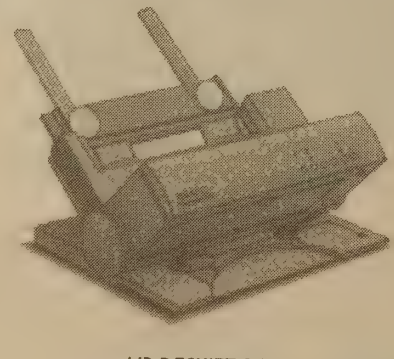

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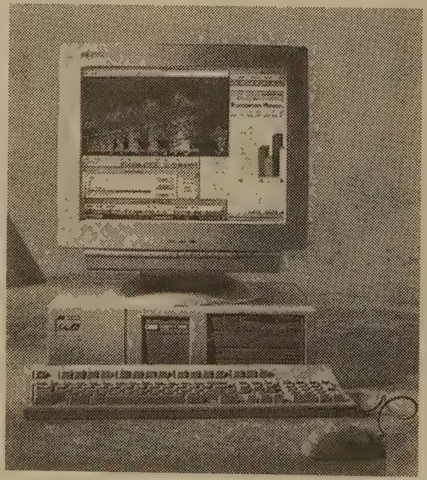

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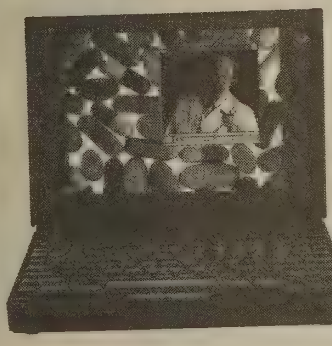
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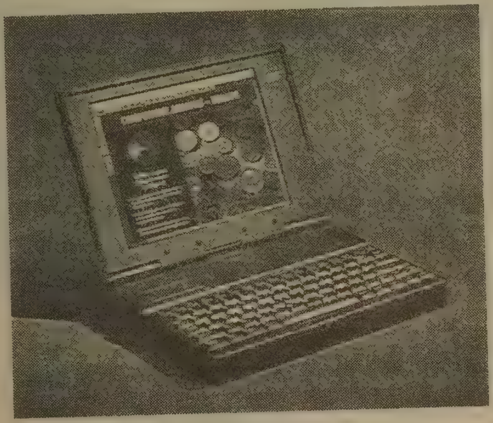
- 510MB HDD
- 10.3" DSTN/TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

DUAL SCAN	**$2395**	*501590-301*
ACTIVE MATRIX	**$2995**	*501589-301*

ASCENTIA 950N


ASCENTIA 910N

ASCENTIA 950N

- INTEL PENTIUM® 75 MHZ CPU
- 8MB RAM EXP TO 40MB
- 810MB HDD
- BUILT-IN SOUNDBLASTER 16
- 10.4" DSTN/TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

DUAL SCAN	**$3079**	*501707-301*
ACTIVE MATRIX	**$4079**	*501708-301*

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Acer NOTEBOOKS

AcerNote LIGHT

INTEL 486DX4-75MHZ CPU

- 8MB RAM EXP TO 32MB
- 420MB HDD/1.44MB FDD
- 10.4" DSTN COLOR/1MB SVGA
- ERGONOMIC TOUCHPAD
- MS WINDOWS '95
- 5.0 LBS
- 3 YEAR LIMITED WARRANTY

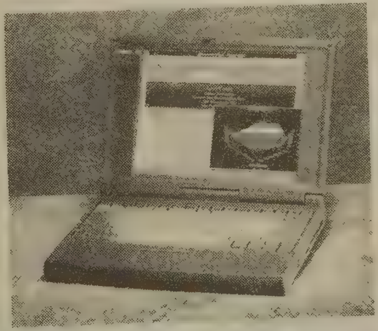
$1990 352

AcerNote PRO

INTEL PENTIUM 75 MHZ CPU

- 8MB RAM EXP TO 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN/TFT COLOR
- 1MB PCI SVGA
- ERGONOMIC TOUCPAD
- MS WINDOWS '95
- 6.4 LBS
- 3 YEAR LIMITED WARRANTY

DUAL SCAN	**$2409**	954
ACTIVE MATRIX	**$2909**	957



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Victoria GOLD (P-6)

- Asus Pentium® Pro 150/166 Mhz Motherboard
- Intel Pentium® Pro 150 Mhz CPU
- Intel Orion DT Chipset
- 256 KB L2 Cache
- 16MB Ram Exp. to 512MB
- 2GB SCSI-II HDD
- Adaptec 2940 PCI SCSI-II Controller
- Teac 1.44MB Floppy Drive
- Viewsonic 17PS 17" Monitor
- Diamond Stealth 64 PCI SVGA Card W/4MB VRAM
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- NEC 6xi Internal 6 Speed SCSI CD ROM
- Microsoft Natural 104 Key Keyboard
- Microsoft Serial Mouse
- Microsoft WINDOWS® 95

150MHZ $6395

** Limited Supply, Available to Corporate Accounts Only

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PC MAGAZINE

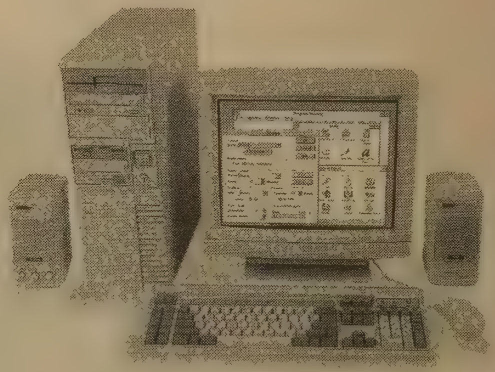
" THE VICTORIA P133 IS A BETTER THAN AVERAGE SYSTEM FOR THE CORPORATE MARKET."

SEPTEMBER 16, 1995 ISSUE #16 - PC MAGAZINE

Victoria YELLOW (P-3)

- Super Micro Motherboard
- Intel Pentium® 133MHz CPU
- Heat Sink & Cooling Fan
- 256K Pipeline Burst Cache (Expandable to 512K)
- 16MB 60ns EDO RAM Ram (Expandable to 128MB)
- Diamond Stealth 64 PCI Video Card W/2MB VRAM (Expandable to 4MB)
- IBM 1GB EIDE Hard Drive 10.5ms
- TEAC 1.44MB Floppy Drive
- Creative Labs Sound Blaster 16
- TOSHIBA XM-5302B EIDE QUAD Speed CD ROM Drive
- ACTIVE SP-935 160 Watt Speakers
- Mag DX 15F 15" Monitor
- Microsoft Mouse w/HD Mouse Pad
- Microsoft Ergonomic Keyboard
- Microsoft WINDOWS® 95
- Microsoft Office Professional 4.3 (CD Version)
- Microsoft Bookshelf
- Baby At Desktop Case w/250 Watt UL Power Supply

$3499



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** Only w/system sale*

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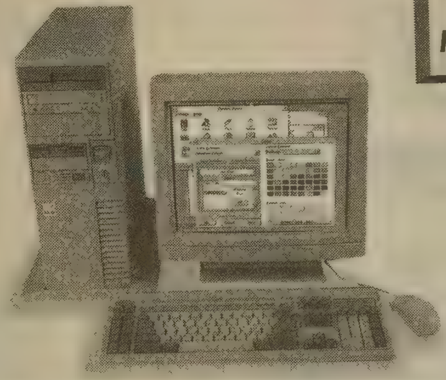

File Options Window Help

Victoria GRAY

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium® Processor and CPU FAN
- 16MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.2GB EIDE Hard Drive
- 17" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95

Impression 4X Multimedia Kit

- QUAD Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speaker
- Encarta 95
- MS Works
- MS Money
- MS Entertainment Pack

75MHZ	**$2595**
90MHZ	**$2695**
100MHZ	**$2795**
120MHZ	**$2995**
133MHZ	**$3195**

*** Microsoft Office 95 $340**

** Only w/system sale*

File Options Window Help

Victoria RED

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium® Processor and CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1 GB SCSI Hard Drive
- 15" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- QUAD Speed EIDE CD ROM

75MHZ	**$1995**
90MHZ	**$2095**
100MHZ	**$2195**
120MHZ	**$2395**
133MHZ	**$2595**

File Options Window Help

Victoria BLUE

- Pentium® Chip-Based Motherboard with 256k Cache
- Intel Pentium® Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.0GB SCSI Hard Drive
- MAG DX 15" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- QUAD Speed SCSI CD ROM

75MHZ	**$2295**
90MHZ	**$2395**
100MHZ	**$2495**
120MHZ	**$2695**
133MHZ	**$2895**

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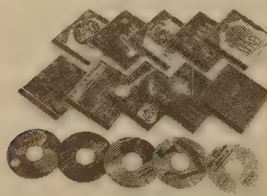
Victoria BLACK

- **NexGen**™ Nx586-90/100 MHz CPU
- 8 MB 70ns RAM EXP to 192 MB
- Mini Tower Case w/230 Watt Power Supply
- Conner 850 MB EIDE HDD
- 1.44 MB 3.5" Floppy Drive
- 101 Key Keyboard
- Spider Tarantula Lite PCI Video Card w/2MB DRAM
- Impression 15" SVGA Monitor .28dpi
- Toshiba EIDE 4X CD ROM
- Creative Labs Sound Blaster 16
- 25 Watt Stereo Speakers
- Microsoft Serial Mouse
- Microsoft Windows '95
- Microsoft Works
- Microsoft Golf

90MHZ	**$1599**
100MHZ	**$1699**



**** Microsoft Office 95 $340***

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Victoria WHITE

- 486 VLB MotherBoard with 128K Cache
- Intel 486 Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 635MB IDE Hard Drive
- 14" Non-interlaced Monitor
- 32-Bit VLB Graphic Accelerator Card W/1MB
- VLB 2H/2F IDE Controller
- 2-Serial Ports 1-Parallel Port 1-Game
- Mini Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- 3 Button Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- Quad Speed CD ROM

66MHZ	**$1259**
DX4-100MHZ	**$1329**

(AMD DX4-100 $1259)

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Victoria MAGENTA

- Asus Pentium® MotherBoard with 256k Cache
- Intel Pentium Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 635MB IDE Hard Drive
- 14" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/1MB DRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- Quad Speed CD ROM

75MHZ	$1545
90MHZ	$1695
100MHZ	$1745

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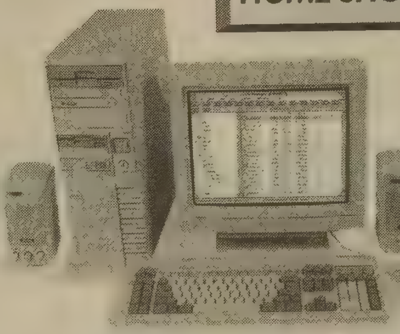

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CUSTOMIZED SYSTEM CONFIGURATION (CSC)

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Company Name:____________________
Name:____________________
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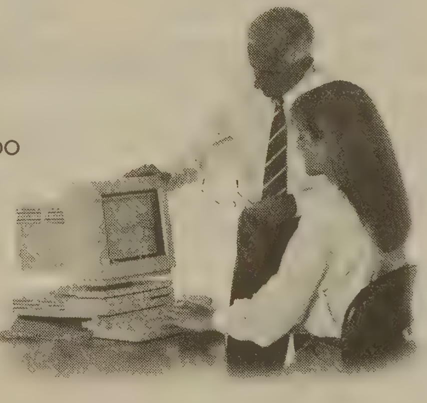
SYSTEM	☐ INTEL 486 ☐ AMD 486 ☐ INTEL PENTIUM ☐ P-6 ☐ NexGen 586
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz
BUS FOR PENTIUM®	☐ PCI/ISAz ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISAz ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 12 MB ☐ 16 MB ☐ 24 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 101 KEY ☐ MS NATURAL ☐ 104 KEY
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1P
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 1.44 K ☐ 28.8K
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
SOUND CARD	
MOUSE	☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ WINDOWS 3.11 FOR WORKGROUP ☐ OS/2 ☐ WINDOWS 95 ☐ WINDOWS NT ☐ DOS 6.22 & WINDOWS 3.11
NETWORK	☐ ISA ☐ EISA ☐ VLB ☐ PCI
OPTIONS	



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Simply circle or fill in the items you would like included in your system and fax it and HD will do the rest.

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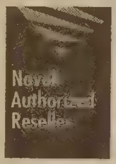

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3.12 5/10/25 User(Regular)
$595/1375/2095
4.1 5/10/25 User(OEM)
$560/1195/1895
4.1 5/10/25 User(Regular)
$695/1495/2195

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PCI Ethernet Card	$129
EN-2400PB 16Bit BNC s/w	$42
EN-2400PT 16Bit 10BT s/w	$39
EN-2400P3 16Bit Combo 3-in-1	$47
EN-6200P2 1PCMCIA Combo	$150
EN-6000BT Pocket Lan 10BT	$135
EN-4001 4Port 10BT Hub	$125
EN-800A 8Port 10BT Hub	$155
EN-1212A 12Port 10BT Hub	$325
Modular Print-Server For Netware	$325

ETHERNET ADAPTERS

INTEL

Etherexpress 16 16bit 5Pack/20pack	$575/1995
16bit Ethernet Combo PCLA 8100	$129
16bit Ethernet BNC PCLA 8110	$115
16bit Ethernet 10BT PCLA 8120	$115
16bit Ethernet Combo PCLA 8105/Flash	$159

3COM

3C509 Etherlink III Coax/TP	$117
3C509 Etherlink III 5pack	$528
3C590 PCI Combo	$165
3C595 PCI 10/100 10BT	$239

SMC

Ether card plus elite 16 Coax/TP	$119
Elite ultra 16bit Coax/TP	$115
Elite ultra 16bit 6pack/24pack	$675/2375
SMC Ultra 16 Bit Ethernet Combo	$135

COGENT DATA TECHNOLOGIES, INC

PCMCIA UTP	$199
32-bit PCI Full Duplex Combo	$159
32-bit PCI Full Duplex UTP	$139
32-bit PCI 4-Port UTP Full Duplex	$529
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16-bit ISA Adapter	$119

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- Quad-Speed CD ROM Drive
- CD ROM Interface Card
- Audio Cable for Sound Blaster Audio Card
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$229

Sound Blaster Value CD 4X

- Quad-Speed CD ROM Drive
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Sound Blaster Digital Schoolhouse 4X

- Sound Blaster 16 Upgradeable Stereo Sound Card
- Quad-Speed CD-ROM Drive
- Stereo Speakers for Accurate Sound Reception
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Sound Blaster Discovery CD 4X

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- 18 CD Titles including: Strike Commander, Syndicate Plus, Wing Commander II and more Titles for Games and Education

$369

Sound Blaster Multimedia Home 4X

- Sound Blaster 16 Upgradeable Stereo Audio Sound Card
- Quad-Speed CD-ROM Drive
- Stereo Speakers
- Microphone
- 24 CD Titles for Whole Famoly Including 11 Microsoft Home Titles: Encarta '95, Cinemania '95, Bookshelf, Musical Instruments

$429

Sound Blaster Performance 4X

- Sound Blaster 32 Wave-Table
- Stereo Audio Card
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- High Quality Stereo Speakers
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DIAMOND MULTIMEDIA KIT

- Kit 5000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$379

- Kit 4000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 11 Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$295

- Kit 1000 w/Double-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$295

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- Impression 4X Upgrade Kit
- Toshiba 3501 SCSI CD ROM Drive
- Sound Blaster SCSI Sound Card
- MS Encarta '95
- MS Works
- MS Money
- MS Entertainment Pack

$499

- Impression 4X IDE Kit
- Teac 4X CD ROM Drive
- Sound Blaster 16 Basic
- MS Encarta '95
- MS Works
- MS Money
- MS Entertainment Pack

$369

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• 160W Stereo Speaker	$69
• 50W Stereo Speaker	$39
• 25W Speaker	$35
• 10W Speaker	$23
• MLI-CP55 Speaker	$12

CD-ROM

NEC

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NEC 4x Internal	$399
NEC 6xi Internal	$475

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4X IDE Internal	$169

PLEXTOR

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4X INT SCSI II PX-43CH w/1MB	$399
6X INT CD ROM	$469

TEAC

4X Internal CD-ROM	$169
4X Combo w/ Floppy	$220
6X INT CD	$259

PANASONIC

Panasonic Quad Speed	$199

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Norton AntiVirus Fills The Prescription For Keeping Your Documents Healthy Under Windows 95

CLOSING WINDOWS 95 TO VIRUSES

By Woody Liswood

Even though Windows 95 includes multitudes of enhancements and utilities, it does not include an antivirus utility. And, since Windows 95 is a 32-bit environment, the 16-bit antivirus programs you have been using will not work. But, just to make things interesting, many of the viruses from the 16-bit world are still capable of growing and doing their thing in this new environment.

Norton Antivirus (NAV) detects, eliminates, and tries to prevent virus infections. A normal installation puts a System Startup Protection feature into memory so that you get constant monitoring and prevention as you work. Under Windows 95 I loaded the auto-protect at startup and scheduled a weekly scan of my hard drive every Friday night just in case the auto-protect feature missed something during the week.

Why Do You Need NAV?

You might not need virus protection: If you only work on your own, personal desktop system and only install shrink-wrapped software from the major sources, such as Microsoft, Lotus, or Novell, and you never share disks or programs with anybody, then you may not need NAV. However, if you hang out on the net, download and try things that interest you, live on a network, share disks with your friends, then NAV should be an important part of your computer life. All that activity makes you susceptible to a potential virus infection.

If NAV finds a virus, it first displays a dialog box telling you what virus it found and which file is infected. You can let NAV repair the file or delete it if repair is not possible. Since the virus detection is accomplished through a virtual device driver, you have automatic background antivirus checking going on at all times.

NAV, during installation, wants to create a set of rescue disks. While this is not a requirement for running the program, and you may already have created a rescue set when you installed Norton Utilities for Windows 95, you should probably go ahead and let NAV make a new set for you. As you add more files and programs to your disk, NAV will eventually send you a message that your disk has changed enough that you should make another rescue set.

NAV also uses a function it calls Inoculation. It makes a copy of the master boot record, the boot records and the system files Windows 95 uses to start the computer. If it finds any changes in those files, you are notified about the changes and asked if you want to restore the older files, or inoculate the new files and place them into the records.

NAV stores information about viruses in two files, VIRSCAN.DAT and VIRSCAN.INF. You should keep those files current and download the latest set periodically from the Symantec BBS. You can also get the files from the Symantec FTP site or through the Symantec Web page.

NAV also monitors what it calls "virus-like activity" and prevents this activity from occurring without your specific permission. NAV will stop low-level formatting of hard disks, writing to the hard disk or floppy disk boot records, making changes to program files, and changing a read-only file to a read-write file.

Lastly, since the majority of the files that are transferred around the net or through BBSes and other information providers, such as The WELL or CompuServe, are in ZIP format, NAV will directly scan those compressed files for enclosed viruses.

Overall, Norton Antivirus for Windows 95 works its wonders as you go along. Yes, you may never experience a virus, but having Norton Antivirus around will prepare you for when they do strike. This is one of the necessary utility programs you should have on your disk. ■

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RESOURCES:

Norton AntiVirus
for Windows 95,
$79 estimated retail price
Symantec Corp.
10201 Torre Ave.
Cupertino, CA 95014
1-800-441-7234

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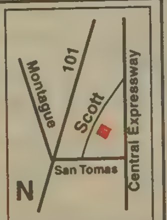

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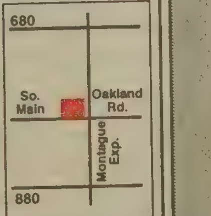

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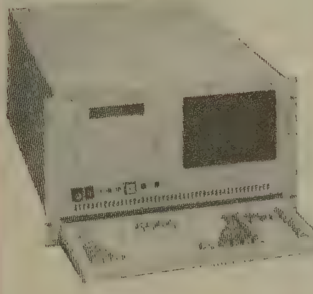

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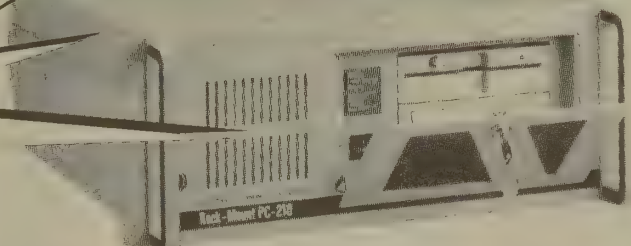

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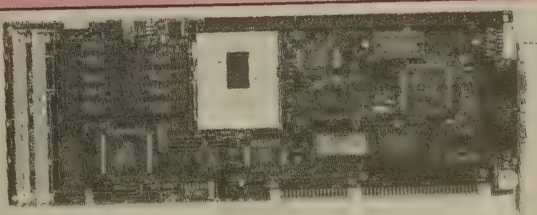

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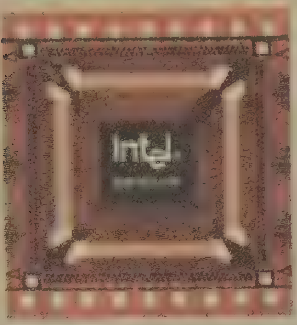

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Can Broadcast Media Become Customer-Driven?

seaQuest Fans Lobby From Cyberspace For More Science, Fewer Bimbos

By Gordon Feller

Each Sunday night during the later months of '94, viewers of the NBC show *seaQuest* began comparing notes with one another via the Internet. In a challenge to the top brass of the TV industry, these ordinary *seaQuest* viewers, banding together on the Internet from sixteen nations, became so well organized that they are effectively demanding input into the creative direction of this expensive series.

Initially, just a few dozen viewers chatting about the show online became upset when *seaQuest*, once a high-minded science-fact series about ocean exploration, hacked off much of the old cast and veered off course into the murky waters of sexed-up fantasy. Soon, *seaQuest* acquired a few nicknames on the Internet—"Bayquest 90210," "Das Bomb," "Voyage to the Bottom of the Barrel," and "seaBreast."

Online Campaign

By December 1994, frustrated and disappointed viewers began to organize in earnest. One viewer in California wrote up a petition and sent it to an online friend, a woman who is herself a member of CompuServe's powerful Sci-Fi Writers Forum. They passed it back and forth between themselves for a week, editing and re-editing the petition.

Then the petition was posted online in various CompuServe forums and dropped into the email boxes of SF viewers. Several hundred users signed on, becoming the start of a core group. The petition made its way to AOL, and was picked up there by users who also had access to other services such as Prodigy and GEnie.

When a call for volunteers went out, users responded enthusiastically. A dozen regional US coordinators, online coordinators for all services, and three overseas coordinators were all self-appointed.

A small petition that began on CompuServe exploded into a real campaign, first organized around five thousand signatures from all over the world collected by dozens of coordinators in key cities. High school students collected signatures in hallways. Viewers shipped off hundreds of letters to Steven Speilberg's Amblin Entertainment (the show's producers) and to NBC. A Web site devoted to the campaign was visited by tens of thousands.

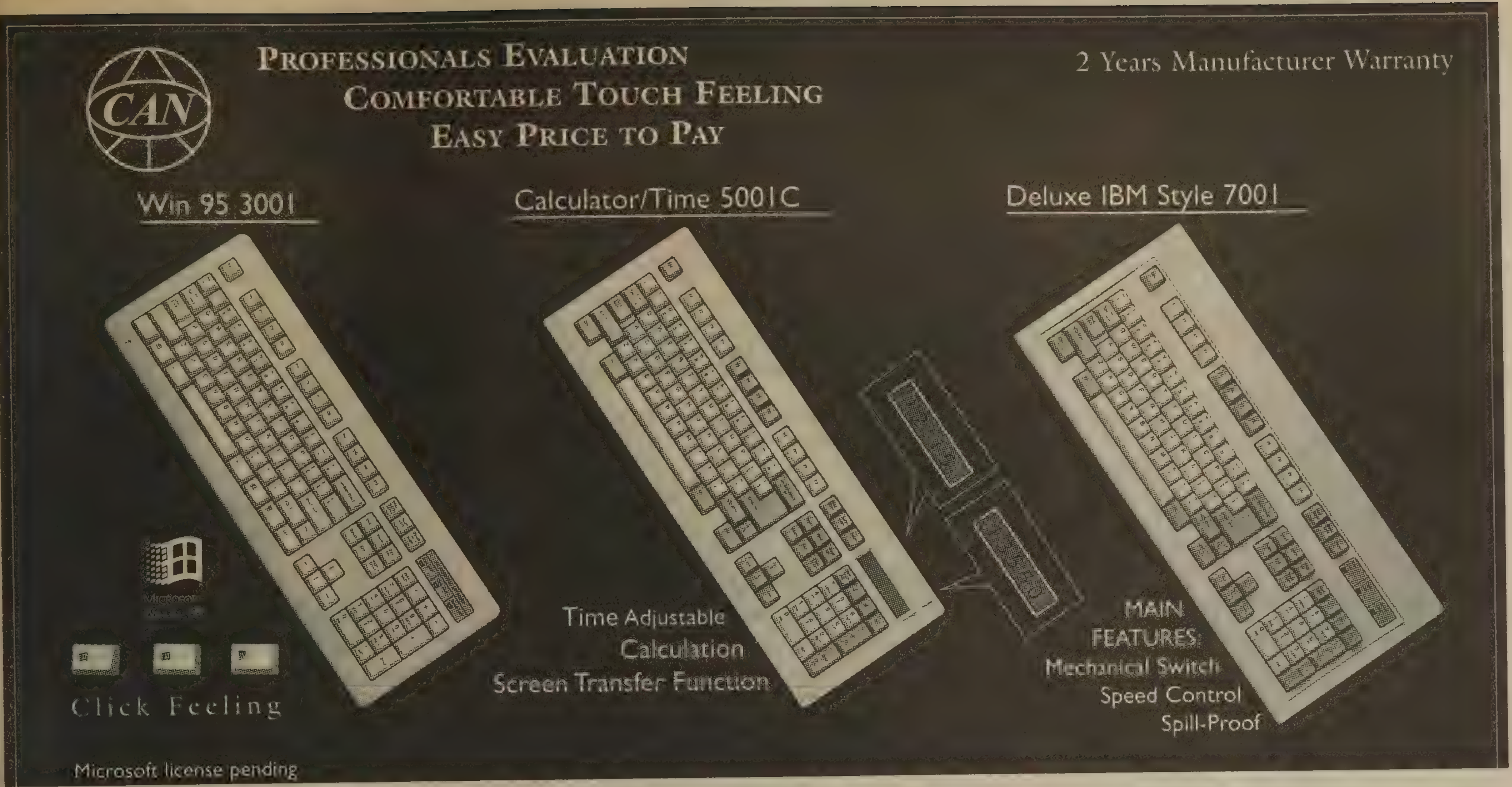
An official global clearinghouse was established in California, equipped with fax and copy machines, three phone lines, a network of computer equipment, and campaign stationery with logos. New local coordinators popped up each day, including volunteers as far away as Canada and Australia.

"*seaQuest* is marketed in many different countries," says one volunteer manager of the San Rafael clearinghouse. "Savvy viewers began to suspect that *seaQuest* was being dumbed-down during the '95 season to appeal to the larger global market. But if that's true, it's a mistake. I'm hearing a lot of global grumbling over the Internet. The Australians are particularly unhappy with the shows that are being served up for their consumption each week."

Power To The Viewers?

What makes this campaign unique, and what in turn apparently makes the NBC execs so uneasy, are the campaign's demands. While viewers would like to see the series renewed, it comes with a pretty strong caveat: improve the show—or else. Couch potatoes are demanding the chance not only to talk back to the tube, but to be heard. To make certain they get heard, they've mobilized significant numbers of like-minded viewers to forward messages of protest about show quality to Amblin and NBC via email, snailmail, fax, and phone.

"SAVVY VIEWERS BEGAN TO SUSPECT THAT SEAQUEST WAS BEING DUMBED-DOWN DURING THE '95 SEASON TO APPEAL TO THE LARGER GLOBAL MARKET."



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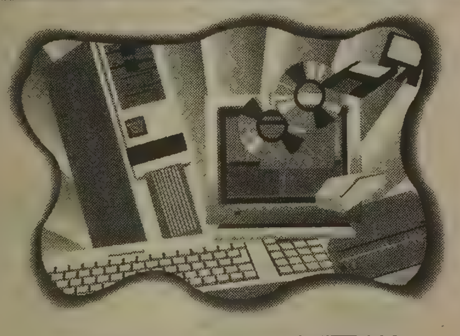

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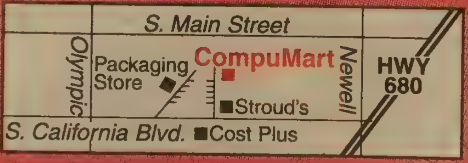

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seaQuest continued...

Some of the changes the viewers are demanding include: stronger and more complex female roles; more cast diversity: the average age of the cast is very young, and viewers say that although it may be pretty to look at, it's actually monotonous; de-emphasis of "cleavage," which has been handled in a tasteless and gratuitous manner all season; a significant improvement in the writing (character development and continuity are particular issues with the viewers); more attention to be paid to accurate science; and complete and unequivocal withdrawal of the exceedingly unpopular fantasy/monster/psychic phenomena themes that seem to pop up with all too much regularity.

> A FEW DOZEN VIEWERS CHATTING ABOUT THE SHOW ONLINE BECAME UPSET WHEN SEAQUEST, ONCE A HIGH-MINDED SCIENCE-FACT SERIES ABOUT OCEAN EXPLORATION, HACKED OFF MUCH OF THE OLD CAST AND VEERED OFF COURSE INTO THE MURKY WATERS OF SEXED-UP FANTASY. SOON, SEAQUEST ACQUIRED A FEW NICKNAMES ON THE INTERNET—"BAYQUEST 90210," "DAS BOMB," "VOYAGE TO THE BOTTOM OF THE BARREL," AND "SEABREAST."

When pressed by viewers, NBC's VP in charge of programming Preston Beckman made a dramatic public admission in a live AOL chat in late April: NBC had changed *seaQuest* dramatically because the show was on a "ratings downtrend and the network thought that a change in premise might help, but we were wrong. We just pissed off the core viewers."

Further, Patrick Hasburgh, *seaQuest's* show runner, admitted to being influenced by the campaign in that same week's *TV Guide*. Among other things, he said that "we [at NBC] absolutely overstepped our boundaries at one time or another...the episode where we tried to bring the mythic figure of Neptune into America's living rooms was a good example of our reach exceeding our grasp."

This particular episode brought howls of online protest from viewers. The series had been plagued throughout the '95 season by absurd story lines, poor scripting, and an apparent lack of long-term vision. This particular episode featured a trident-carrying Neptune (referred to in the show as a "Greek" god!), a superfluous shower scene highlighting

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seaQuest *continued...*

excess cleavage, and a singing rock star whose eyes glowed whenever her body was "possessed" by the female god, Minerva.

One viewer, Evelyn from Kansas, wrote in protest that "good characters have been exchanged for cheap gimmicks, and the emphasis has changed from science fact to cheesy fantasy." Nancy Pribanich, a key strategist in the campaign, called NBC "the network that forces its viewers—and its most distinguished star—to beg for quality."

In defense of the show, Javier Grillo-Marxuach, the NBC executive who oversees the series, said in an email message to the campaign clearinghouse that *seaQuest* pulled in ratings much more consistently than last year and has "turned on the lights in a difficult time slot." But, he says, "If the viewers are passionate and motivated enough to put forth a considered opinion, the best I can say is that I am listening."

"Viewers won't accept a few crumbs of change," replied Jen Lui-Grushka, President of CapeQuest, the largest and most well-respected of the *seaQuest* fan clubs.

Future Uncertain

Will this campaign change forever the way networks interact with their viewers? The campaign has argued that the show's third season, the critical one that enables wealth-producing syndication, will sink or swim on the basis of better writing—and they offered many specific proposals to be implemented by the new team of writers they felt should be brought in to revamp. So far, the NBC brass has turned a deaf ear to the interactive Internet-based feedback—and the ratings for the few episodes shown to date in the new season have been abysmal.

"We have a singular goal, which is the improvement of *seaQuest*, " says one online campaign participant. "However, in this age of global communication technology, networks ignore viewers at their peril. And they are very out of touch. Viewers can infiltrate and rock the boat in any market."

The online Davids are taking on two Goliaths, NBC and Amblin. Viewers are angry and disappointed—to say nothing of being well organized and smart. And they have every intention of snapping at some heels. The petition—and regular flow of action bulletins—have been posted on many of the Internet's newsgroups, including alt.tv.seaquest, sci.geo.oceanography, rec.arts.sf.tv.

The petition is also posted in the sci-fi television areas of AOL and CompuServe. The campaign's email address is *maryflr@best.com*. Their Web page address is *http://www.best.com/~maryflr/P1-Intro.html*. ■

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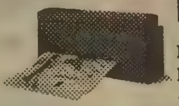

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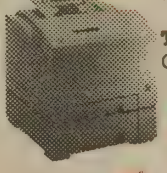

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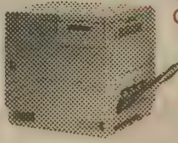

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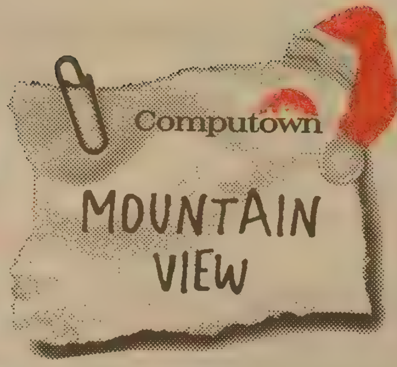

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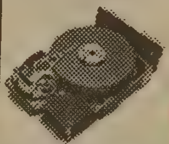

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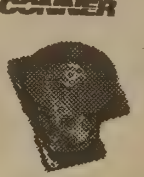

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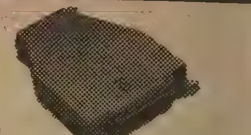

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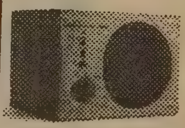

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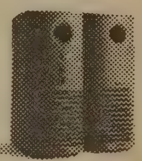

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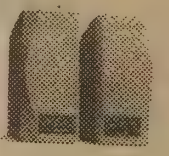

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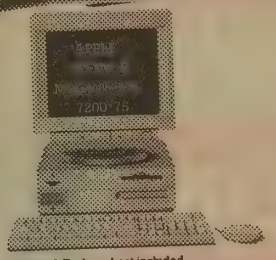
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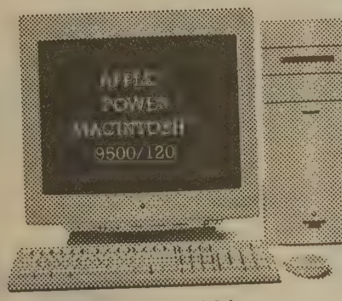
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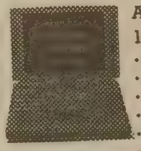

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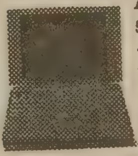

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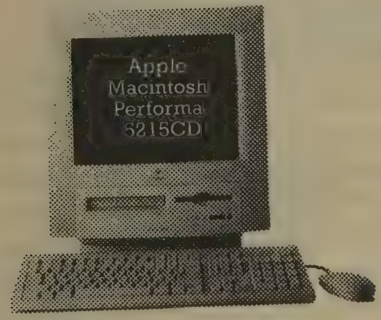

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AddressMate Does Addressing And Much More

By Ed Kahn

Years ago, when computers began to dominate the office, the one task that always stuck out like a sore thumb was addressing envelopes. While the job has been simplified in the last few years, it is still not as easy as we might like. If you doubt this, look at the number of letters you receive that are typed on a computer and have hand-written addresses or, slightly better, have labels affixed to the envelope. Now there is a solution so simple and inexpensive that everyone should get it. AddressMate for Windows gets the job done efficiently and easily, and as an added bonus does lots of other things in the bargain. AddressMate will keep your address book in order, dial your phone, make business cards, and create virtually any size label.

This $69.95 application installs as a standalone program. But if you write with Microsoft Word, WordPerfect for Windows, or AmiPro, it is easy to install icons that will allow you to run AddressMate from within your word processor. The initial setup involves importing or creating a database of your address book. In my case, I have had the same list going for nearly a decade and have imported and exported the list from one application to another. This is the best yet.

Once your addresses are installed as a database within AddressMate, you can begin to reap the benefits of the program. When writing a letter, type the last name where you want the address, hit an icon in the toolbar, and the name and address will be brought into your letter. You will be asked if the program should continue the search. This is in case you have several people with the same last name. When you see the right listing, simply answer no and the search stops. The name is imported with the title, first name, middle name, last name, and such all in the right order. The address will include all the fields you have selected from the database. You are now ready to go on with your correspondence. If the address you want is not in the database, just type it into the letter and then hit a menu selection; the name and all relevant fields will go into your database for the next time.

When you have finished the letter, load your envelope into the manual slot of your laser printer (AddressMate works with other printers, but works best with a laser or inkjet model). Press a special print icon installed in the toolbar and the letter and envelope will print. No need for separate printing or capturing of the address.

There is room for a number of fields in the database. You can instruct the program to print these fields in any order you want. This means, for instance, that you can print addresses with the last name first in order to create a phone book. I have found that the nicest way to do this is to export my personal address file to a third-party program called Address Book for Windows. This $14.95 program lets you organize fields and the final report with a good deal of flexibility. The end result is a professional-looking booklet. This program lets you print into many different formats including Rolodex and Day-Timers and may be worth it if you want something a little nicer than a purely utilitarian printout.

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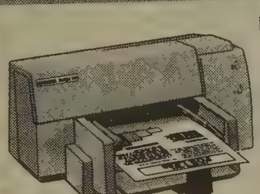

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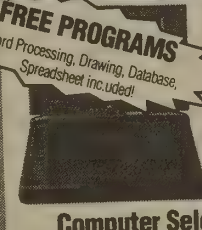

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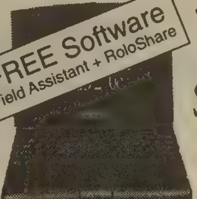

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AddressMate *continued...*

envelope as a template, which allows you to design pretty much any kind of envelope you like. In my case, I have my name and address printed across the end of the envelope. I start with a blank envelope and end up with a professional-looking one with a printed return address as well as the recipient's address. If you include zip codes in your address file, the bar code will be printed on the envelope; and if you use a zip plus four zip code, you will get not only a bar code but also a routing code that speeds up the delivery of your letter as the post office bypasses manual sorting.

You can design templates for different purposes. I have designed different envelope templates for personal correspondence, business, and one for my wife. The program will let you design as many templates as you like, and you can call up any of them with a click of the mouse.

The same flexibility that lets you design envelope templates can be used to make any size label. A number of templates come with the package. If you find the template you need, you will not have to mess with defining the form at all. All of the standard Avery labels, for instance, are there. This includes labels for marking videotapes, mailing labels, etc. One of the nice features is that if you create a template that will print on a sheet of labels, you can indicate how many labels to print and where to start. This lets

AddressMate

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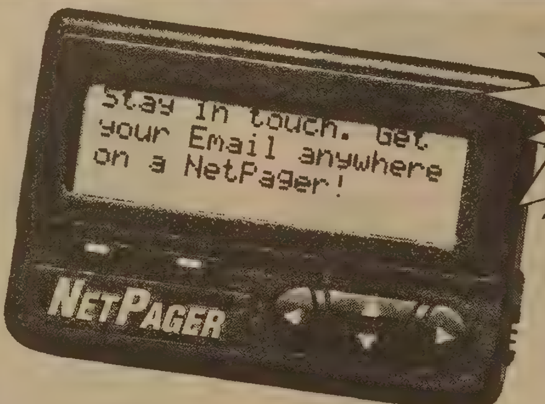

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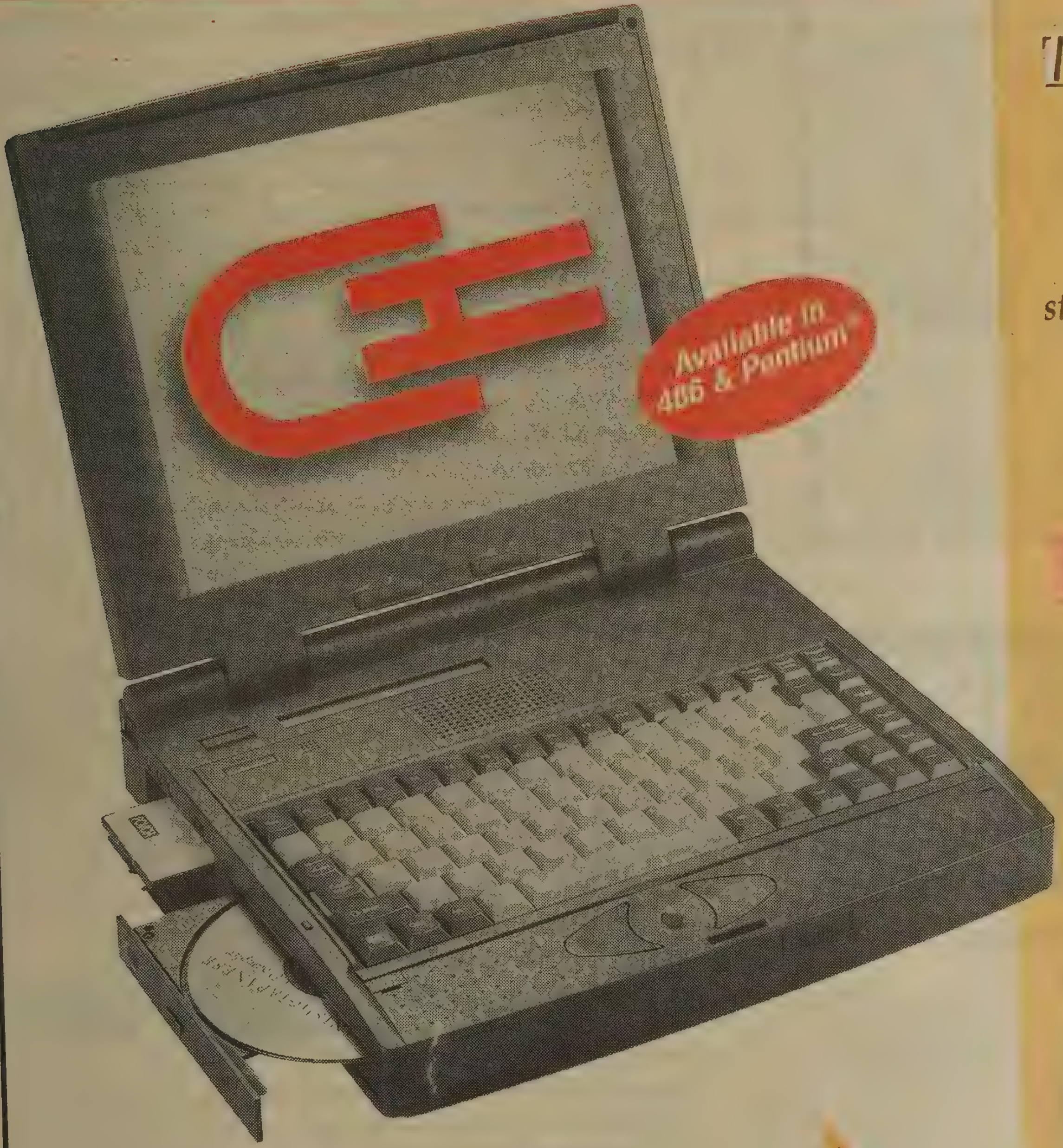

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AddressMate *continued...*

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An added feature is the ability to create these labels with unique numbers. For instance, you might want to print labels with ascending serial numbers. This is no problem. Simply instruct the program to start at a given number and increase each label by an increment of one. You could then use these labels as tickets. You can even get more than one label with the same number, so you can keep a stub for your own records. This program is really versatile.

If you define the label as the size of a business card (there is already a business card template), you can easily make up your own cards. You can buy a number of commercial blank business cards at office supply stores that come ten to a sheet with perforations. I find that most of these cards are too thin for my taste. I can make a considerably nicer card by printing the copy, ten to a sheet, on a standard piece of paper and then taking this to a copy shop and having it reproduced on a thicker stock. AddressMate gives you the option of having these sheets print with grid marks to guide you in cutting the cards into their final size. Having the cards copied onto heavier stock is a bit more work than using the standard perforated card stock, but it gives a nicer end product.

One of the nicest features of AddressMate is the telephone dialing feature. You move from listing to listing in the database by simply typing in the last name. A whole screen appears with all of the fields. Included, by the way, is a simple note field. This is not an elaborate field like you would find in a personal information manager, but, rather, a place for short entries. I like to keep my dentist appointment in this field. I simply look up the dentist and in the note field is my next appointment. I tend to forget these far-off schedulings, and this is a lot easier than an elaborate calendar or PIM for my purposes.

In any case, there are fields for both home and work phone numbers. Hit Control-D and the appropriate phone number will dial. I keep home phone, work phone, fax, and Internet addresses in my database as well as the normal fields. When I am at my desk, I have instant access to the information and can dial phone numbers with a few keystrokes.

This seemingly simple program does other things as well. You can export a selection from your phone list into a different listing to use for mail merge purposes. Of course, you can use your entire list, but often you want to send a mail-merged letter to a portion of the larger list. By the way, you can have as many address lists as you want. You might, for instance, have a personal list, a business list, and a list for your social club. There is no limit to the number of lists you can create.

Since I began to use AddressMate, it has become one of the most important programs on my computer. It serves as my address book, phone dialer, notepad, and envelope manager. With so many features, it is easy to forget that its stated purpose is to make addressing envelopes easier; but you will never forget to use it, as it is nearly transparent. Writing letters is simplified, and if you are like me, you will no longer make the mistake of introducing errors when you copy an address into a letter. This is a must-have piece of software. ■

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Lima, Ohio, Goes Online

Public/Private-Sector Collaboration Helps Town In Transition

By Cynthia Dyer-Bennet

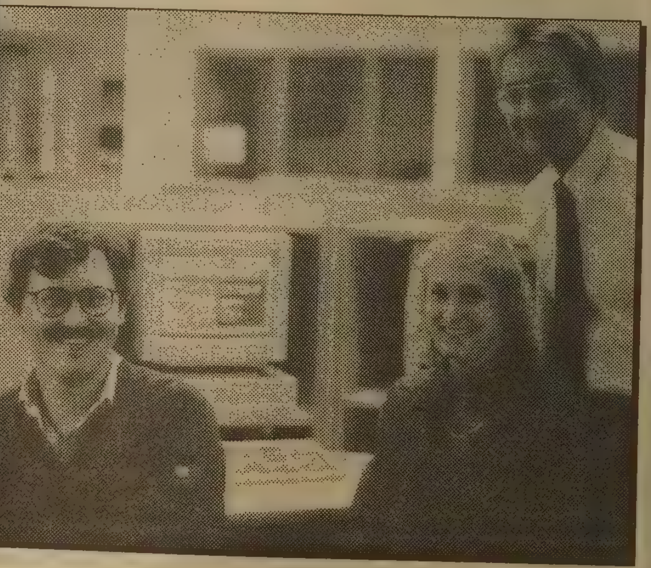
To some, Paul Monus is a visionary, to others, a dreamer. Some may have chuckled at his utopian image of linking the citizens of Lima, Ohio, to each other and the rest of the world through modems, microwave, public access television, and LANs, but they've stopped laughing. For the past few years, Monus and others who shared this vision have pushed, pulled, poked, prodded, and cajoled the community towards actualizing this goal.

Monus is senior project manager at the BP Lima Refinery in Lima, a small town located about 75 miles northwest of Columbus, the state capitol, and 150 miles southwest of Cleveland. The city has a population of about fifty thousand, with another fifty thousand residing in outlying areas. The population is 74.5% white, 24% black, and 1.5% other minorities. The median annual income is around $21,000. There's a Ford plant, a number of Honda parts manufacturing businesses, a General Dynamics M-1 tank factory, and a major refinery that was established by Rockefeller in 1886. It is a manufacturing town that is suffering the economic backlash of a world moving away from heavy industry and towards an information-based work structure.

BP's Global Connection Inspires Local Version

Monus has worked at the BP plant for the last seventeen years. In recent times, BP has successfully linked all but some of its hourly workers throughout the world with a communications network. "All the salaried and management people are on it," says Monus, "and secretaries, too. Within the last five years, everybody has been linked up."

He sees the sharing of information as a key to the economic and social well-being of a community. "If we try to know everything individually, it's both hard and very expensive. It would be smarter if we worked together and pooled our informational resources," he explains.



Right: Paul Monus, Dianne Moots, and Greg Burton; above: rural connectivity.

As an example, he cites a difficulty his BP site was having with a process unit. "Nobody locally could figure out how to solve the problem, so we arranged a video conference with some people in London, emailed them some data, did some experiments at the plant to narrow down what was going on, and eventually solved it."

Now Monus wants to see similar connectivity provided to the public, a step he sees as imperative for Lima's survival: "As we change from the manufacturing age to the knowledge creation age, these kinds of tools will not only become useful but actually vital if we want to succeed and prosper as a community."

Monus points to the benefits this connectivity will provide. Farmers can share information about their crops, senior citizens can organize group get-togethers, and healthcare officials can keep abreast of the latest developments in the medical community.

He also has his eye on the long-term future. It's undeniable that computers and all their interactive capabilities are going to be the primary tools of both business and community interaction in the twenty-first century,

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Lima, Ohio Goes Online *continued...*

and Monus wants to give the youth of Lima a leg up on the technology. Plans for including both lower- and upper-level educational institutions in this network are already under way.

WORC-Net

Monus's energy and zeal for this project seem boundless, and sometimes overwhelming. When asked to provide a "bit of background data," he sent over eighty pages of information via email, and backed it up with a video and an additional 350 pages of typed material via snail mail.

Fortunately, his evangelism is contagious. Not only are plans going well, they're ahead of schedule. A projected start-up date of January 1996 for beta testing of an electronic community network, WORC-Net, will happen much earlier.

WORC-Net stands for WestCentral Ohio Regional Community Net. WORC-Net partners have been struggling with the best way to bring the network to the largest number of people at the lowest possible cost, and much of the ongoing labor is being done by volunteers. "Essentially," says Monus, "we want to be able to pay for our help desk, our technical person and our training staff." Another way to keep the overhead down, according to Monus, is to contract out some of the hardware maintenance.

During the beta testing, a small cadre of individuals will be working towards establishing content on the network. "We are organizing our information providers who will champion each special interest group on the server," explains Monus. Farmers, senior citizens, healthcare institutions, United Way agencies, labor unions, small businesses, real estate developers, county and city government—these are the sorts of groups who will be putting data online for the eventual use of the entire community—"We're trying to figure out how to create the information that will be on there, and recruit the volunteers who will load the information. We'll have two things: permanent information for people like farmers, and temporary information like chat rooms and listservs."

The idea is to allow the information providers to familiarize themselves with the system prior to the projected public opening on March 1, 1996. "In January or February of 1996 we'll start inviting the helpers of the providers to come online, so by March we'll have all the glitches and bugs worked out," says Monus.

A Long Time Coming

Plans for this network have been under consideration for several years. Monus explains that a tremendous amount of time was invested in researching the most reliable and affordable system requirements. He consulted with John Quarterman of Texas Internet Consulting and Dennis Newman, who helped developed DARPAnet, the forerunner of the Internet. Their input helped Monus formulate a concrete plan when choosing hardware and software to run WORC-Net.

The system, a DEC Alpha box with 128MB of RAM and 12GB of hard disk space, will run UNIX. The software, a collection of freeware programs called Chebucto Suite developed in Nova Scotia, will use standard Internet tools integrated for the purposes of the community network. The Web browser will be Netscape for GUI graphics interface and Lynx for text-based access. SLIP and PPP dialup access will be provided, as well as remote login for telnet clients. There will be local Usenet newsgroups for conferencing, listserv for private conferencing, IRC chat, and ftp.

A T-1 link to Columbus has already been made available by Lima Technical College with the help of LTC's president, Dr. Jim Countryman. "It's just one more piece in this grand plan that will give the Lima area a communications infrastructure second to none in the world," says Countryman of the upcoming network.

The driving force behind this project is a partnership that includes Lima Technical College, Apollo Career Center, the Lima/Allen County Chamber of Commerce, the West Central Small Business Development Center, the West Central Ohio Regional Development Board, and Information Technology Partners. ITP, which Monus cochairs along with Jamie Wyant, a computer teacher in a nearby suburb, is a nonprofit community organization formally established in October of 1993. Monthly meetings, some via interactive videoconferencing to include outlying districts, kept the enthusiasm for the project growing.

Initially, the focus of discussion was on what hardware and software would be needed to accomplish connectivity. It soon branched out to include consideration of more ephemeral issues, such as what kind of support and training should be provided and what kinds of information should be available.

Online Issues

One issue of concern has been censorship, particularly in a situation in which children will have access to online activities. Monus notes that a balancing act must be performed to honor the concept of free speech while not allowing any individual or group to step over the line of community standards.

"This is currently a hot topic," he says. "Fortunately, we have some excellent librarians who have been struggling with this issue. This is a very conservative community. Lima has the distinction of being one of the most Republican communities in the United States, in spite of the fact that Ohio is Democratic in general. As such, any kind of thing that might be construed as anti-family, risqué, will have to be examined."

He acknowledges the impossibility of 24-hour-a-day monitoring, and says that, ultimately, the answers lie in parental supervision. "Parents need to be involved in developing the moral character of the children. There is going to be some profanity that you just can't stop. I wouldn't try to filter everything that kids do, you just have to let them learn to grow up. The ultimate solution is developing a trust in the children."

He believes the ability to change logins while engaged in "chat" sessions has a positive function, particularly for people unfamiliar with the rough-and-tumble world of online conversation. "People can say what they truly feel with-

ONE ISSUE OF CONCERN HAS BEEN CENSORSHIP, PARTICULARLY IN A SITUATION IN WHICH CHILDREN WILL HAVE ACCESS TO ONLINE ACTIVITIES. MONUS NOTES THAT A BALANCING ACT MUST BE PERFORMED TO HONOR THE CONCEPT OF FREE SPEECH WHILE NOT ALLOWING ANY INDIVIDUAL OR GROUP TO STEP OVER THE LINE OF COMMUNITY STANDARDS.

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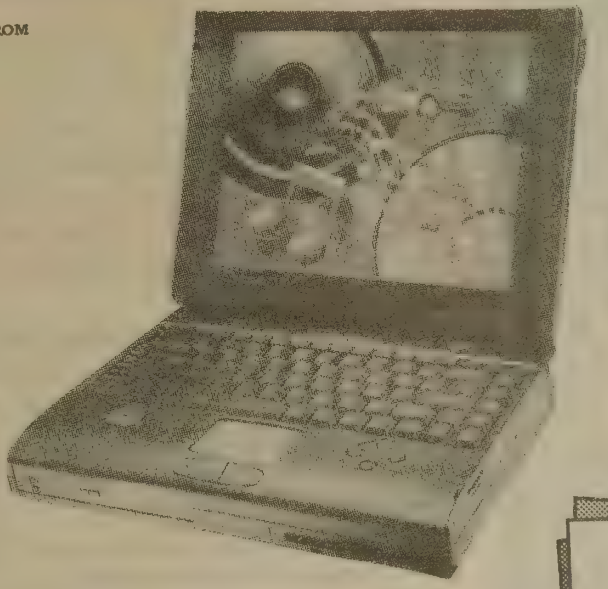

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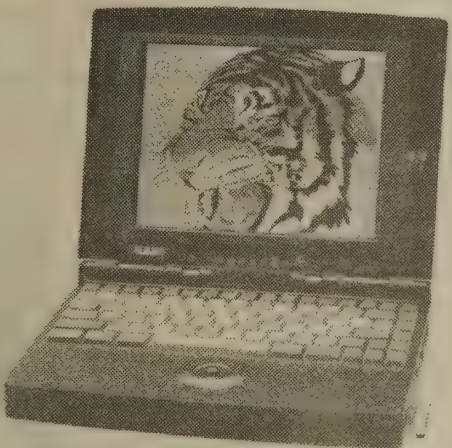

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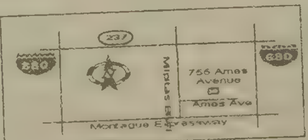

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Lima, Ohio Goes Online *continued...*

out the threat of being embarrassed. If they are flamed by someone, they can just leave the chat room and reappear named as someone else, thereby surviving the flaming process much more easily than in real life."

Outside of chat functions, however, users will not be able to alter their IDs. "It gets back at the incentive to not violate community standards. If you're not willing to be known by what you're saying, there's a risk that there's something wrong going on there," he says.

Funding for this project has come from a range of sources. BP donated used computer equipment. The Ohio Board of Regents awarded a $200,000 grant for start-up money, and WORC-Net partners will provide an additional $303,355 via fundraising and in-kind donations.

Emailathons In Schools

ITP's roots go to prior organizations with similar goals, such as Science Across the World, a UK group formed by the Association for Science Education; the Lima Area Macintosh User's Group, a community organization composed primarily of educators intent on increasing community involvement through the use of computers; and BP's Science Enhancement for Science Advancement Program. SESA stresses hands-on, interactive learning focused on enhancing science education and learning motivation for K-8 students.

One of SESA's ongoing projects is an annual science showcase at Lima's Civic Center. This showcase, open to the general public, features science experiments conducted by local students. At the 1993 science showcase, ITP arranged to hook up six personal computers to BP's email system. Through postings to the net, Monus organized participation from locations including Norway, Finland, South Africa, and Israel, as well as many within the United States. The offsite hookups were located at BP plants and schools around the world with Internet connectivity. Students, teachers, the general public, and BP employees exchanged email, held conversations through IRC, and sent faxes to each other. The $1000 cost of the emailathon was underwritten by BP.

LIMA TECHNICA

Dr. Jim Countryman, President, Lima Technical College

M.C. Morgan, an assistant professor of English at Bemidji State University in Minnesota, emailed Monus after the event with his enthusiastic observations. "There seemed to be a significant number of student-aged girls involved in the event, which, I hope, will pay off for everyone, with more women going into the sciences and on the networks... I could imagine some of the kids' expressions when someone they didn't know actually replied to their words. They were being heard!... A powerful demonstration of literacy across cultures and communities."

Kevin Schroeder, an operator at the Acrylonitrile Plant in Lima, was also enthralled with the experiment. "IRC is truly a great equalizer. I had a heated political discussion one evening with someone about the current welfare system, and health care, and other things. Later, I found out I was debating a 14-year-old boy! Amazing..."

Clare Wale, a teacher in Sunbury, England, said chats were a great hit with her pupils. "The students were bowled over by the fact that they were having multiple conversations with people all over the world."

The event was so successful that three more emailathons have been held since then, with plans for another in development. Though Monus doesn't have figures on the total number of participants at each of the gatherings, he expressed delight in the turnout. "It is hard to know the exact number, they can come in through IRC chat or via email," he said. "But one particular time we made an effort to count and we had over two thousand nodes. That's an unbelievable number—two thousand of them took time out of their lives to talk to each other at once."

Future Plans

WORC-Net is just part of a larger scheme for Lima's connectivity. Eventually, Monus expects to see links provided through bookmobiles using microwave linkup.

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Lima, Ohio Goes Online

continued...

loads satellite signals and resells them to these rural people. At the moment, it is only being used for one-way downloading, but one of the things we want to do as part of this development effort is to let the farmer have reciprocal publishing access," he says. Though funding for this portion of the plans is not yet available, optimism prevails among the partners.

Monthly Internet "jam sessions" are held as training grounds for those with no computer skills. "We've been borrowing schools with net access," Monus explains. "There's a program with an instructor with an overhead doing demonstrations, then everybody can practice at these sessions. We've been doing this work mainly with teachers, but it's open to the public."

Provisions are also being made for the economically disadvantaged. Plans are on the drawing board to install the BP-donated computers in local libraries, malls, and community centers. Public access television is another portion of the program. "We've got the financing, we've got an authorization from the City Council, we'll be going online in March of 1996," Monus said. The public will be encouraged to make their own videos and publish them. Super VHS video cameras will be available on loan to those who don't have their own.

Yet another area the WORC-Net partnership is exploring is distance learning. According to Monus, Sprint United and Time/Warner became interested in Lima as a testing ground for their joint ventures. They laid fiber optic cable connections between two Lima area K-12 schools some 40 miles apart. Local citizenry could participate in classes by going to the nearest Distance Learning Labs, watching, and responding to instructors through videoconferencing. "That was successful for about two years," said Monus. "Though the schools saw the value in it, there wasn't enough funding to continue, so it went dark. But all the hardware is still there." Plans to revive the system are in the works.

Monus sees cyberspace as an energizer for people who have lost their lust for knowledge. "Kids are born with a love of learning. People who quit learning start to stagnate," he says. "Part of the appeal of cyberspace is that it rekindles that love of learning that may have gotten lost or gone dormant, and gives them an opportunity to grow." ■

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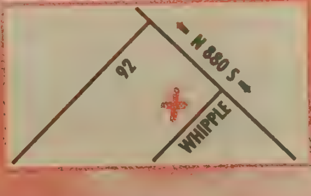

Fun And Games: The 3rd Annual Holiday Gift Guide

Holiday PC Shareware Roundup

You Don't Have To Pay Top Dollar To Get Great Software

By Lenny Bailes

The PC shareware marketplace has been evolving recently to keep pace with the migration to more powerful computers and operating systems. Whereas most programs used to be designed for DOS and sold on 5.25" disks, an increasingly large number of shareware products are now written for Windows or Windows 95 and distributed on one or more 1.44MB 3.5" disks. (Some of us may even remember when floppy media were referred to as "diskettes" rather than "disks.")

The minimum hardware baseline for current PC shareware has also been bumped up gradually. You'll need a VGA monitor display, 80386 or 80486 CPU, and a few megabytes of extended memory to run any of the packages we discuss here.

The basic policies governing shareware use, however, remain fairly constant. Shareware programs can be had for the cost of the diskettes that contain them, or downloaded from your nearest public bulletin board system. (A number of authors have also begun to distribute their products and/or offer technical support through the World Wide Web.)

You have a period of weeks or months to evaluate the software at your leisure. If you decide that you like what you see, a registration fee of less than $100 will get you full documentation, technical support, and access to program enhancements.

The Association of Shareware Professionals is an organization that exists to monitor program quality, protecting both authors and consumers. If you find a READ.ME file included with a package that proclaims the author a member of ASP, you have several guarantees: 1) you won't be getting a "crippled" package that deliberately disables program features, 2) the package has been tested to meet certain standards of quality, and 3) the authors won't suddenly skip town when you need technical support.

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One of the disappointments of Windows 95, to many users, is the limitation of its Explorer shell, even when compared to the File Manager that was bundled with Windows 3.1. Win 95 users may quickly discover, to their dismay, that Explorer is awkward or nonfunctional for a variety of file management tasks. It offers no easy way to horizontally and vertically tile file windows, view directory listings by file extension, display side-by-side listings for two drive partitions, customize confirmation preferences for COPY/MOVE/DELETE, perform file operations on a group of filtered items, or configure and edit application/file associations.

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Maxtor 1.2GB IDE	$250
Maxtor 540MB IDE	$162
Quantum 540MB IDE	$165
Quantum 2.1GB SCSI	$675
Seagate 1.05GB SCSI II	$392
Seagate 2.1GB SCSI II	$880
Other	$CALL

MEMORY

1MBx3-70 (30 Pin)	$CALL
4MBx9-70 (30 Pin)	$CALL
1MBx32-70 (72 Pin)	$CALL
2MBx32-70 (72 Pin)	$CALL
4MBx32-70 (72 Pin)	$CALL
8MBx32-70 (72 Pin)	$CALL
1MBx36-70 (72 Pin)	$CALL
2MBx36-70 (72 Pin)	$CALL
4MBx36-70 (72 Pin)	$CALL
8MBx36-70 (72 Pin)	$CALL

CONTROLLERS

IDE & I/O Controller ISA	$10
IDE & I/O Controller VLB	$16
EIDE Controller PCI	$18
Adaptec 1542CF	$165
Adaptec 2842 VLB	$228
Adaptec 2940 PCI	$188
Adaptec 3940 PCI	$398
Other	$CALL

FAX/MODEM

Zoltric 14400 Fax/Modem	$45
Zoltric 28800 Fax/Modem	$125
US Robotic 14400 Fax/Modem	$85
US Robotic 28800 Fax/Modem	$185
Other	$CALL

MULTI MEDIA

Sound Blaster Pro 16	$65
Sound Blaster AW32	$165
Mitsumi 4x CD-ROM	$135
Teac 4x CD-ROM	$135
Panasonic 4x CD-ROM	$138
Toshiba 4x CD-ROM	$138
Toshiba 6x SCSI CD-ROM	$315
25W Speakers	$35
80W Speakers	$48
Other	$CALL

NETWORK CARDS

3COM 16TP	$75
3COM 16COAX	$65
3COM 16COMBO	$95
SMC 16TP	$95
SMC 16COMBO	$115
Other	$CALL

MOUSE/KEYBOARD

Impression Serial Mouse	$9
Microsoft Serial Mouse	$22
Microsoft Bus Mouse	$48
Mitsumi 101 K/B	$15
Maxi Enhanced K/B	$25
Keytronic 101 K/B	$28
Other	$CALL

CASES

Mini-Tower Case 230W P/S	$32
Mid-Tower CAse 230W P/S	$55
Full-Tower Case 250W P/S	$95
Baby Desktop Case 230W P/S	$62
Dual Fan Full-Tower Case 300W	$125
Other	$CALL

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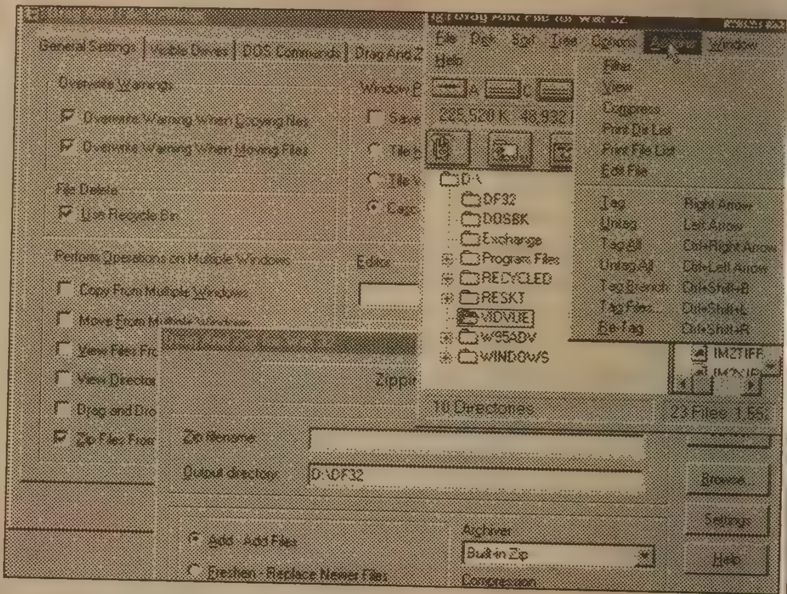
Holiday PC Shareware Roundup *continued...*



Output directory: D:\DF32

Archiver: Built-in Zip

Drag and File.

Drag and File comes to your rescue by providing the full functionality that was formerly available in Windows 3.1 File Manager, plus some new Win 95 bells and whistles. It can handle all of the tasks discussed above, with support for Win 95's long filenames and right-click mouse options. Drag and File includes an augmented toolbar, and pulldown menu functions that hook into Win 95's QuickView and Network Sharing features. It can tag/untag selected directories and files, sort in ascending or descending order, print, launch programs, find files, display multiple filtered file lists, and set custom confirmation options for each window.

A companion program, Drag and Zip, turns the interface into a full-featured archive manager, allowing you to compress and decompress files on the fly with your chosen compression utility, drag and drop files into and out of zipped archives, and convert zipped archives into self-executing files, simply by right-clicking the mouse.

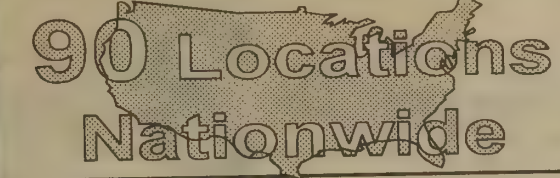
Drag and Drop/Drag and Zip is the brainchild of well-known Bay Area shareware programmer Dan Baumbach, who is also a past ombudsman of the Association of Shareware Professionals. Windows 3.1 versions of these utilities are also available on your local BBS, or from Baumbach's (Canyon Software) Web page.

Windows Instant Resume

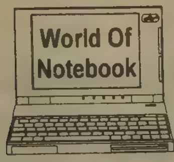
This word processor-like utility will be useful for any of your friends engaged in a job hunting quest. It provides a series of formatted resume templates for academic, business, managerial, and technical positions.

A series of buttons makes it easy to reformat the appearance of the headings and descriptive information in each of the resume templates. You can switch fonts, make multiple columns, or choose a look-and-feel from one of the pre-formatted style buttons. One menu option provides a thesaurus of "action words" that can be inserted into a resume to juice up its appeal to corporate mar-

PC WAREHOUSE



You will come for the price
You will stay for the service



IBM

ThinkPad 701

Intel i486DX2/50 or DX4/75
Active or Dual Scan Color

ThinkPad701CS/DX4-75 8/540	$Call
ThinkPad701C/DX2-50 8/360	$Call
ThinkPad701C/DX4-75 8/360	$Call
ThinkPad701C/DX4-75 8/720	$3769

ThinkPad 755

Intel i486 DX4/100 or Pentium 75
Active or Dual Scan Color

ThinkPad755CSE/100-540	$Call
ThinkPad755CE/100-540	$Call
ThinkPad755CD/P75-810MB	$4759
ThinkPad755CDV/P75-1.2GB	$Call
ThinkPad755CV/P75-810	$Call
ThinkPad755CX/P75-810 VGA	$5049
ThinkPad755CX/P75-810 SVGA	$Call

NEC

Versa 2000 Series

INTEL DX4-75 MHZ

2000D (4MB RAM, 350 MB HDD, Dual Scan Color)	$1849
2000C (4MB RAM, 350MB HDD, Active Color)	$Call
2000C (8MB RAM, 540MB, Active Color)	$2619

Versa 4000 Series

Pentium 75 or 90 Mhz

4000D (P75, 540MB, CD-ROM)	$3579
4000TC (P75, 720MB)	$Call
4000TC (P90, 810MB, CD-ROM)	$Call
4050C (P90, 810MB, CD-ROM)	$4449

SHARP.

3010-250MB (i486DX2/66, 10.4" DSTN, 4MB, Glide Point)	$Call
3050-500MB (i486DX2/66, 10.4" DSTN, 8MB, Glide Point))	$Call

COMPAQ

5100 (New) (Pentium 90, 8MB RAM, 810MB HDD Active Color, CD-ROM)	$5495
LTE Elite 4/75CXL,DX4/75, 10.4" TFT, 8/810MB	$Call

TOSHIBA

T2130CS-500-DX4/75-8MB	$1999
T2130CT-500-DX4/75-8MB	$2489
Portege 610CT-720 (Pentium 90, 8MB EDO, 720MB HDD 9.5" TFT Color, 2 Speed CD-ROM)	$Call
SatellitePro 400CS (Pentium 75, 8MB EDO, 810MB HDD Dual Scan Color, 10.4" Disply)	$2495
SatellitePro 400CDT (Pentium 75, 8MB EDO, 810MB HDD 10.4" TFT Color, Quad Speed CD-ROM)	$3985
SatellitePro 410CS/CDT(New)	$Call
Tecra 700/CS/CT(New)	$4659/$5979

TEXAS INSTRUMENTS

TravelMate5000M/5100M	$Call
Extensa 450 (DX4/75)	$Call
Extensa 550/550CD(NEW) (Pentium75, 8MB RAM, 524MB HDD)	$Call

NOTEBOOK MEMORY

IBM.

ThinkPad350/360/701-4MB	$189
ThinkPad350/360/701-8MB	$379
ThinkPad350/360/701-16MB	$669
ThinkPad750/755-4MB	$189
ThinkPad750/755-8MB	$379
ThinkPad750/755-16MB	$669
ThinkPad755-32MB	$Call

TOSHIBA

T2100/2400/3400/3600/4400/6400 T6600/1900/1910/1950/1960/4500 T4600/4700/4800/4850/4900 4/8/16MB	$189/379/669
T610/T400 (EDO memory) 8/16/32MB	$615/1180/2319

SHARP.

8150/8650/8650II-4MB	$189
8150/8650/8650II-16MB	$669

NEC

Versa E/V/M/P 4 M 3.3v	$189
Veras E/V/M/P 8 M 3.3v	$379
Versa E/V/M/P 16MB 3.3v	$669
Versa S/2000/4000	$Call

NOTEBOOK ACCESSORIES

Notebook Carrying Bag	$29
Megahertz14400 Fax/Modem-XJ	$175
Megahertz 28800 Fax/Modem-XJ	$325
Hayes PCMCIA 14400 F/M	$169
Xircom PCMCIA Ethernet 10BT	$155
3COM PCMCIA Ethernet 10BT	$169
New Media PCMCIA sound/SCSI	$Call
New Media Wav Jammer Sound	$299
US Robotics 28.8 Fax/Modem	$Call

486DX2-66	486DX4-75	486DX4-100	Pentium-75	Pentium-90/100	Pentium-120/133
Intel 486dx2-66 CPU	Intel 486dx4-75 CPU	Intel 486dx4-100 CPU	Intel Pentium 75CPU	Intel Pentium 90/100CPU	Intel Pentium120/133 CPU
256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA
0-128 MB RAM	0-128 MB RAM	0-128 MB RAM	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G
VLB IDE Ctl w/2S/1P/1G	VLB IDE Ctl w2S\1P\1G	VLB IDE Ctl w/2S/1P/1G	Enhanced IDE-PCI	Enhanced IDE-PCI	Enhanced IDE-PCI
TEAC 1.44 Floppy Drive	TEAC1.44Floppy Drive	TEAC1.44 Floppy Drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive
Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mid-tower case w/250w	Mid-tower case w/250w	Mid-tower case w/250w
101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard
$Call	$279	$319	$459	$549/599	$669/859

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MONITORS

9" Paper White VGA Mono	$119
NEC XV15/XE15	$469/$579
NEC XV17/XE17/XP17	$789/$989/$1069
NEC XE21/XP21	$1799/$2159
SONY 15SF/17SF	$489/$879
SONY 20SE	$1879
ACER 34T/55	$249/$329

PRINTERS & SCANNERS

HP DeskJet600/660C/850C	$299/399/529
HP DeskJet1600C/PS	$1329/1919
HP LaserJet5L/5P/5MP	$499/879/1049
H LaserJet4+/4M+	$1389/1899
HP 4V/4MV(16PPM, 11X17)	$1889/2699
HP LaserJet 5si/5siMX	$2899/3999
HP OfficeJet	$699
HP Envelope Feeder LaserJet3D/4	$Call
Epson 9 Pin Dot Matrix AP2250	$79
HP ScanJetIIIP/IIIC	$349/939
HP Accessories	$Call
Brother Laser Printer	$Call

DRIVES

Conner 635MB 12ms IDE	$179
Conner 850 MB 12MS IDE	$199
Conner 1.06GB 9ms SCSI	$279
Conner 1.2GB IDE	$279
WD-31200 1.0GB 10ms IDE	$299
WD-2850 850MB 10ms IDE	$199
Maxtor 540MB 12ms IDE	$175
Maxtor 850MB 12ms IDE	$199
Quantum 850MB 12ms IDE	$199
Quantum 1.0GB 12ms IDE	$239
Quantum 1.0GB 10ms SCSI	$319
Quantum 2.1GB 10ms SCSI	$809
Syquest 270 SCSI Int/Ext	$469/539

MULTIMEDIA

NEC 6xi (6X Speed, OEM)	379
SONY 77E/Panasonic 562B	$135/$69
TOSHIBA 3601B/5302B Int	$289/$149
Mitsumi Quad Speed Int IDE	$149
SoundBlaster16/MCD/ASP	$75/$85/$99
SoundBlaster16SCSI-2	$109
SoundBlaster AWE32	$239

VIDEO CARDS

Spider Tarantula 2MB VRAM	$219
ATI **WIN** Turbo 64 2MBVLB/PCI	$279
Diamond Stealth Video 2MBVLB/PCI	$279
Fx Motion 771 VRAM PCI 2MB	$269
Kelvin 64 1MB VLB/PCI	$119
S3 or Cirrus Logic 1MB VLB/PCI	$75
Trident ISA/VLB/PCI 1MB	$65/$75$79

CONTROLLERS

Buslogic PCI-SCSI w/kit	$199
Buslogic VLB-SCSI w/kit	$199
Adaptec 2842 SCSI VLB w. kit	$239
Adaptec 2940 SCSI PCI w. kit	$219
Adaptec 2940W wide SCSI w.kit	$299
Promise DC-4030 IDE VLBw/4HD	$99
IDE-PCI w/2S/1P/1G	$35

TAPE BACKUP

Colorado DJ-35C/25C 350/700MB	$139/$195
Colorado Trakker 350/680MB	$279$339
Colorado PT10 1GB	$599
Conner 4320 RT Interal 2GB	$789

MODEMS

Etech 28800 Fax/Modem Int	$125
Monterey 28800 Fax/Modem Ext	$119
US Robotics **28800** Fax/Modem Int	$185
US Robotics **28800** Fax/Modem Ext	$195
Zoom 28800 Fax/Modem Int	$159

MEMORY

1MB X 9-70ns(3 chips)	$Call
4MB X 9-70ns(3 chips)	$Call
256k X -70ns(3chips)	$Call
1MB X 36-70ns	$Call
2MB X 36-70ns	$Call
4MB X 36-70ns	$Call
8MB X 36-70ns	$Call

MOUSE &KEYBOARDS

Logitech MouseMan (Combo)	$35
Logitech Trackman Portable	$25
Microsoft Mouse serial(w/sys purchased)	$25
Keytronics 104 windows95 keyboard	$35
Microsoft Natural Keyboard	$89
Monterey 81 Key Mini keyboard	$45

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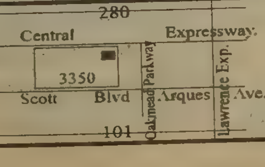

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ketroid types. Other options activate a spell-checker and date verification utility.

The package includes a tutorial document that guides you in choosing an appropriate resume type and developing content for it. The tutorial also provides job hunting interview hints and resume do's and don'ts. This program runs under both Windows 3.x and Windows 95.

COMt—Instant Windows Telnet

There is nothing so rare in the world of Windows and Internet connectivity as a decent, inexpensive utility for telnetting into remote bulletin boards and information access sites through a TCP/IP connection. Some $200 and $300 communication packages are beginning to include Telnet support, but those of us with older communication software are usually forced to rely on buggy little utilities with no terminal emulation, no upload/download capability, and little or no ability to capture or scroll back through an online session.

COMt is a useful program that solves this problem by adding Telnet capability to any older, dedicated telecommunication package. With COMt installed, you can take advantage of the superior terminal emulation and desktop features of programs like QMODEM for Windows, MicroPhone, Crosstalk, WinComm, older versions of ProComm, or even Windows 3.1's Terminal to telnet into any Internet site through a virtual communication port.

COMt unpacks and installs in thirty seconds. All you need to do is tell it to intercept the output to an unused serial port like COM3 or COM4. Then open your normal Windows telecommunication package, set it for the "virtual" serial port, and telnet directly into the WELL, CompuServe, or your favorite Internet Relay Chat site. Once you're connected, you have all the advantages that are missing from lame-o dedicated telnet utilities. You can specify exotic terminal emulations, capture sessions, and upload and download binary files through CompuServe B or ZMODEM.

Games

This survey wouldn't be complete without a few mentions of the really mission critical stuff:

Fuzzy's World of Miniature Space Golf: This DOS golfing adventure takes place on a wacky outer-space course with impressive VGA graphics. There are nine holes on a series of convoluted uphill/downhill greens, through mazes and twisty impressionistic obstacles.

The user gets to vary the direction and force of each swing to compete against the par for each hole. Each hole includes its own weird space-disco music collage, which plays in the background. It is a game of skill—the intensity and direction of each swing really does vary the flight of the ball from tee to green.

This shareware version includes nine holes. The registered full version is an 18-hole course with more music, animation, and zany holes.

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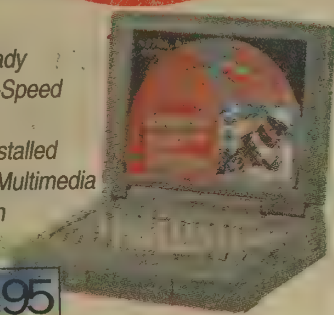
In Touch with Tomorrow

TECRA 700CT $5???
TECRA 700CS $4???

- *Pentium™ Blockbuster! The World's Fastest Notebook!*
- *Pentium™120 MHz with PCI Bus*
- *700CS 8MB - 700CT 16MB*
- *Active Color 11.3" Display*
- *1.26 GB Hard Drive*

- *Multimedia Ready*
- *Optional Quad-Speed CD-Rom Drive*
- *Windows 95 Installed*
- *Desktation V Multimedia Docking Station*

TOSHIBA TECRA 700CT $ 5??? TECRA 700CS $ 4???



Win95 INSTALLED

75MHz Pentium™ Processor

- *CD-ROM*
- *Multimedia Performance*
- *810MB*
- *AccuPoint™*

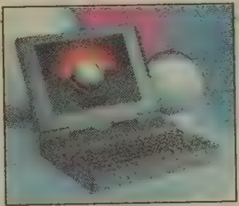
Model	Processor	Ram	HD	Screen	Price
T2100	486/DX250	4MB	250MB	9.5" Mono	$1248.
T2100CT	486DX2/50	8MB	330MB	8.4" Active Clr	$1948.
T2110CS	486DX4/75	4MB	350MB	9.5" Dual Scan	$1698.
T2130CS	486DX4/75	4MB	520MB	10.4" Dual Scan	$1948.
T2130CT	486DX4/75	8MB	520MB	10.4" Active Clr	$2798.
T400CDT	Pentium™/75	8MB	810MB	10.4" Active Clr	$3998.
T400CS	Pentium™/75	8MB	810MB	10.4" Dual Scan	$2898.
T610CT	Pentium™/90	8MB	720MB	9.5" Active Clr	$3848.

TEXAS INSTRUMENTS

Travelmate 5000 Pentium Notebooks

- *Built-in PCI Bus*
- *Built-in 16 Bit Sound*
- *Brilliant Color Display*
- *2 Type II or Type III PCMCIA Slots*

Model	Processor	Ram	HD	Screen	Price
A550CDT	Pentium™/75	8MB	524MB	Active Clr	$3498.
A550CDS	Pentium™/75	8MB	524MB	Dual Scan	$2898.
A550C	Pentium™/75	8MB	524MB	Dual Scan	$2398.
A450CT	486DX4/75	4MB	340MB	Active Clr	$2348.
A450C	486DX4/75	4MB	340MB	Dual Scan	$1798.
5100CT	Pentium™/75	8MB	1.2Gig	Active Clr	$4798.



AST. Authorized Reseller

ASCENTIA 950 Notebook

Model	Processor	Ram	HD	Screen	Price
910N	486DX4/75	8MB	510MB	10.3" Dual Scan	$2248.
910N	486DX4/75	8MB	700MB	10.3" Dual Scan	$2448.
910N	486DX4/75	8MB	510MB	10.4" Active Clr	$2748.
910N	486DX4/75	8MB	700MB	10.4" Active Clr	$2898.
950N	Pentium™/75	8MB	500MB	10.4" Dual Scan	$2598.
950N	Pentium™/75	8MB	800MB	10.4" Dual Scan	$2898.
950N	Pentium™/75	8MB	1.2GB	10.4" Dual Scan	$3248.
950N	Pentium™/75	8MB	800MB	10.4" Active Clr	$3798.
950N	Pentium™/75	8MB	1.2GB	10.4" Active Clr	$4198.

TOSHIBA

In Touch with Tomorrow

TOSHIBA FACTORY CLOSE-OUTS & FACTORY REFURBISHED

Model	Processor	Ram	HD	Screen	Price
T1910	486SX/33	4MB	200MB	9.5" Mono	$998.
T1910CS	486SX/33	4MB	200MB	9.5" Dual Scan	$1398.
T1950CS	486DX2/40	4MB	200MB	9.5" Dual Scan	$1448.
T1950CT	486DX2/40	4MB	200MB	8.4" Active Clr	$1798.
T1960CS	486DX2/50	4MB	320MB	9.5" Dual Scan	$1598.
T1960CT	486DX2/50	4MB	320MB	8.4" Active Clr	$1998.
T2105	486DX2/50	4MB	250MB	9.5" Mono	$1098.
T2105CS	486DX2/50	4MB	330MB	10.4" Dual Scan	$1698.
T2155CDS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2598.
T2155CDT	486DX4/75	8MB	520MB	10.4" Active Clr	$3298.
T2400CS	486DX2/50	4MB	250MB	9.5" Dual Scan	$1598.
T2400CT	486DX2/50	8MB	250MB	8.4" Active Clr	$1798.
T2450CT	486DX4/75	8MB	320MB	9.5" Active Clr	$1998.
T3400CT	486SX/33	4MB	120MB	8.4" Active Clr	$1698.
T3400CT	486SX/33	4MB	250MB	8.4" Active Clr	$1798.
T3600CT	486DX2/50	8MB	250MB	8.4" Active Clr	$2498.
T3600CT	486DX2/50	8MB	500MB	8.4" Active Clr	$2698.
T4800CT	486DX4/75	8MB	500MB	9.5" Active Clr	$2698.
T4850CT	486DX4/75	8MB	500MB	10.4" Active Clr	$3198.
T4850CT	486DX4/75	8MB	810MB	10.4" Active Clr	$3298.
T4900CT	Pentium™/75	8MB	810MB	10.4" Active Clr	$4498.

90MHz Pentium™ Notebook PCI

INTRODUCING
The HP OmniBook 5000

Model	Processor	Ram	HD	Screen	Price
5000CT	Pentium™/90	8MB	1.0GB	10.4" VGA TFT	$5198.
5000CTS	Pentium™/90	16MB	1.0GB	10.4" SVGA TFT	$5748.
4000C	486DX4/100	4MB	520MB	10.3" Dual Scan	$2498.
4000CT	486DX4/100	4MB	520MB	10.4" Active Clr	$3098.
4000CT	486DX4/100	8MB	810MB	10.4" Active Clr	$3398.
4000CT	486DX4/100	16MB	810MB	10.4" Active Clr	$3998.

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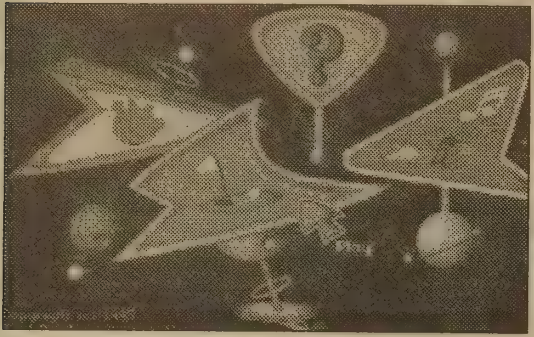
Holiday PC Shareware Roundup *continued...*



Fuzzy's World of Miniature Space Golf

THE MINIMUM HARDWARE BASELINE FOR CURRENT PC SHAREWARE HAS ALSO BEEN BUMPED UP GRADUALLY. YOU'LL NEED A VGA MONITOR DISPLAY, 80386 OR 80486 CPU, AND A FEW MEGABYTES OF EXTENDED MEMORY TO RUN ANY OF THE PACKAGES WE DISCUSS HERE.

The game requires 4MB of RAM, an 80386 or better CPU, 4MB of hard disk space, and a VGA monitor. A Creative Labs Sound Blaster-compatible card is required for music.

Epic's Deep Sea Pinball: Deep Sea Pinball is a multilevel pinball arcade game for DOS with a deep-sea motif. It is one of a series of Epic pinball tables, with motifs varying from Androids, Magic, and Toy Factory to Cybergirls.

Pinball gizmos included are drop targets, multilevel playfields, ball-return gates, spinners, and a multiple-ball bonus mode. An LED display shows your cumulative score and which of the various bonus options are active, as your ball bounces around the 256-color VGA table. The screen animation runs at an impressive 60 frames per second. Periodically, certain timed event bonus windows open on the screen—shark attack, shipwreck, etc.—and you earn more bonus points by directing balls to specific values.

This shareware demo contains one pinball table. Each complete, registered, Epic pinball pack contains four tables. The package runs from a DOS prompt and requires 500K of conventional memory and a VGA monitor. Background sound effects and music require a Creative Labs Sound Blaster-compatible or Gravis Ultrasound card. Epic sells four additional pinball packs with other table motifs. ■

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Turn to page 279 for shareware resources...

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Fun And Games: The 3rd Annual Holiday Gift Guide

Selecting A Printer

Many Choices, Many Tradeoffs

By Nick Anis And Craig Menefee

In the past couple of years the printer market has shifted dramatically, resulting in a staggering number of available makes and models. The range of features has become so great that choosing a printer can be very confusing unless you know exactly what you need.

Assuming you want to, you can still get a simple 9-pin dot matrix printer that rat-a-tats text onto the page a line at a time, sounding like an oversized and hardworking woodpecker. You also can get only slightly more expensive 24-pin printers, good for casual use. These workhorses are still the only printers that can fill out multipart NCR forms, still an issue in many business environments using multipart purchase orders, invoices, statements, and so on.

For better quality output, though, you won't have to shell out very much more to move up to newer technologies. You can get inkjet printers, color inkjet printers, monochrome laser printers, or multifunction printers (either monochrome or color) that also serve as scanners, copiers, and/or fax machines. Incredibly, all these options are available at street prices of under $1000.

You can spend more, and find pretty much any type or quality of printing output that you might need (or just crave).

You can do all this for PC, Macintosh, or, in a more limited range of choices, for a mixed environment of PCs and Macs.

Tip: Typically, multiplatform support is limited to more expensive "workgroup" printers. A safe bet for multiplatform color inkjet printing is the Epson Stylus Color II. It's both PC and Mac compatible, offers the best color and text print quality in the consumer marketplace (720 x 720 in both color and monochrome), and has a street price of $449.

The Smorgasbord

At last count, more than fifty dot matrix printer manufacturers still offered over 350 different models. Popular printers in this category include models made by Apple, Brother, Citizen, Dataproducts, Datasouth, Epson, Lexmark, NEC Technologies, Okidata Corporation, Panasonic, Star Micronics, and Texas Instruments.

More than twenty-five manufacturers offer over ninety different inkjet printer models. Some of the most popular are made by Apple, Brother, Canon, Citizen, Epson, Hewlett-Packard, Lexmark, NEC Technologies, Okidata, Panasonic, Texas Instruments, and Xerox.

And there's no shortage of laser printer models and manufacturers. Currently an estimated seventy-five active laser printer manufacturers offer over five hundred models. Popular units are made by Apple, Brother, Canon, Dataproducts, Epson, Hewlett-Packard, Laser Master, LexMark, NEC, Panasonic, QMS, Sharp, Texas Instruments, and Xerox, among others.

Left: Hewlett-Packard Color LaserJet printer; Above: Epson Stylus Color II.

To further complicate matters, as more and more consumers get into the picture, an incredible array of new uses for printers is evolving. It's no longer just memos, letters, charts, and graphs. Now PC and Mac users can create customized stationery, greeting cards, T-shirts, stickers, cross-stitch sewing patterns, coloring books, signs, and much more.

Making The Choice

So how do you pick the right printer from such an embarrassment of choices? Whether you're working standalone, on a local area network y • Sell • Upgrade • Exchange • Trade-in • Buy • Sell • Upgrade • Exchange • Trade-in • Buy • Sell •

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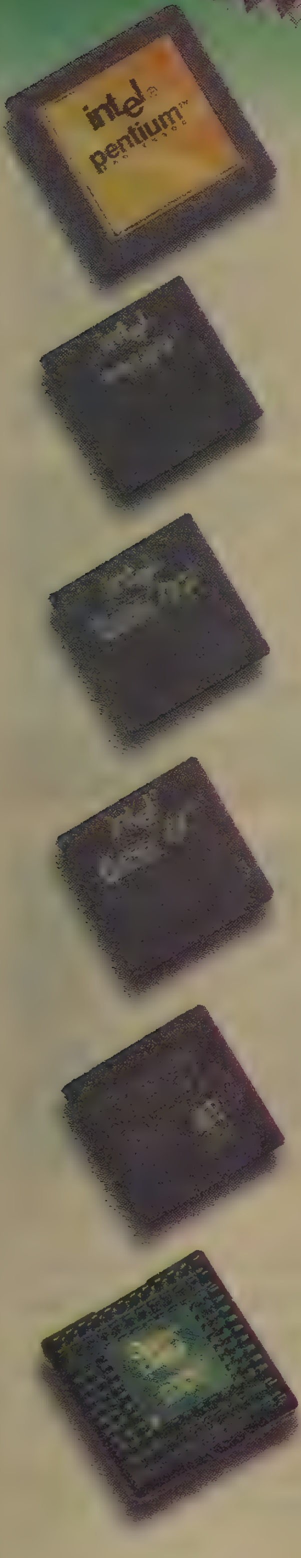

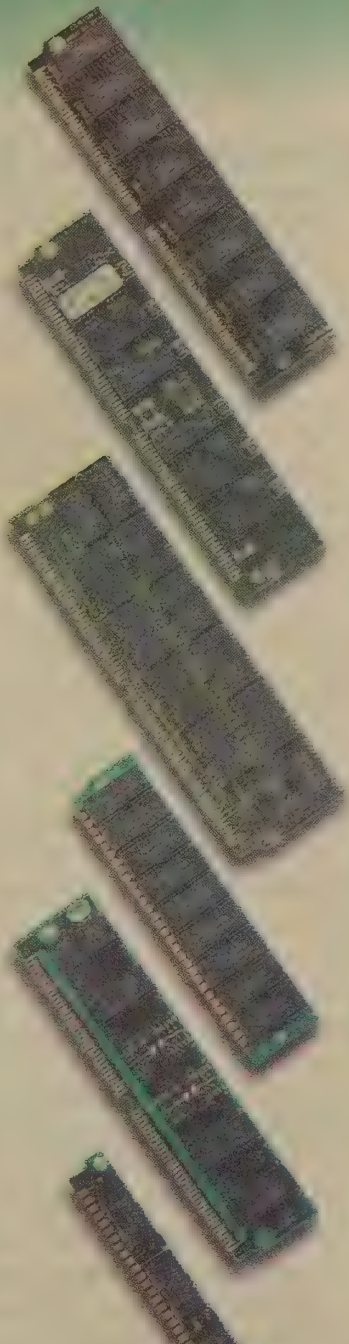

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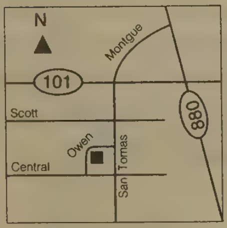

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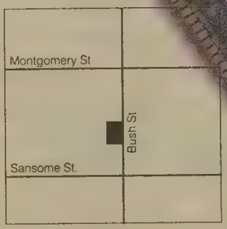

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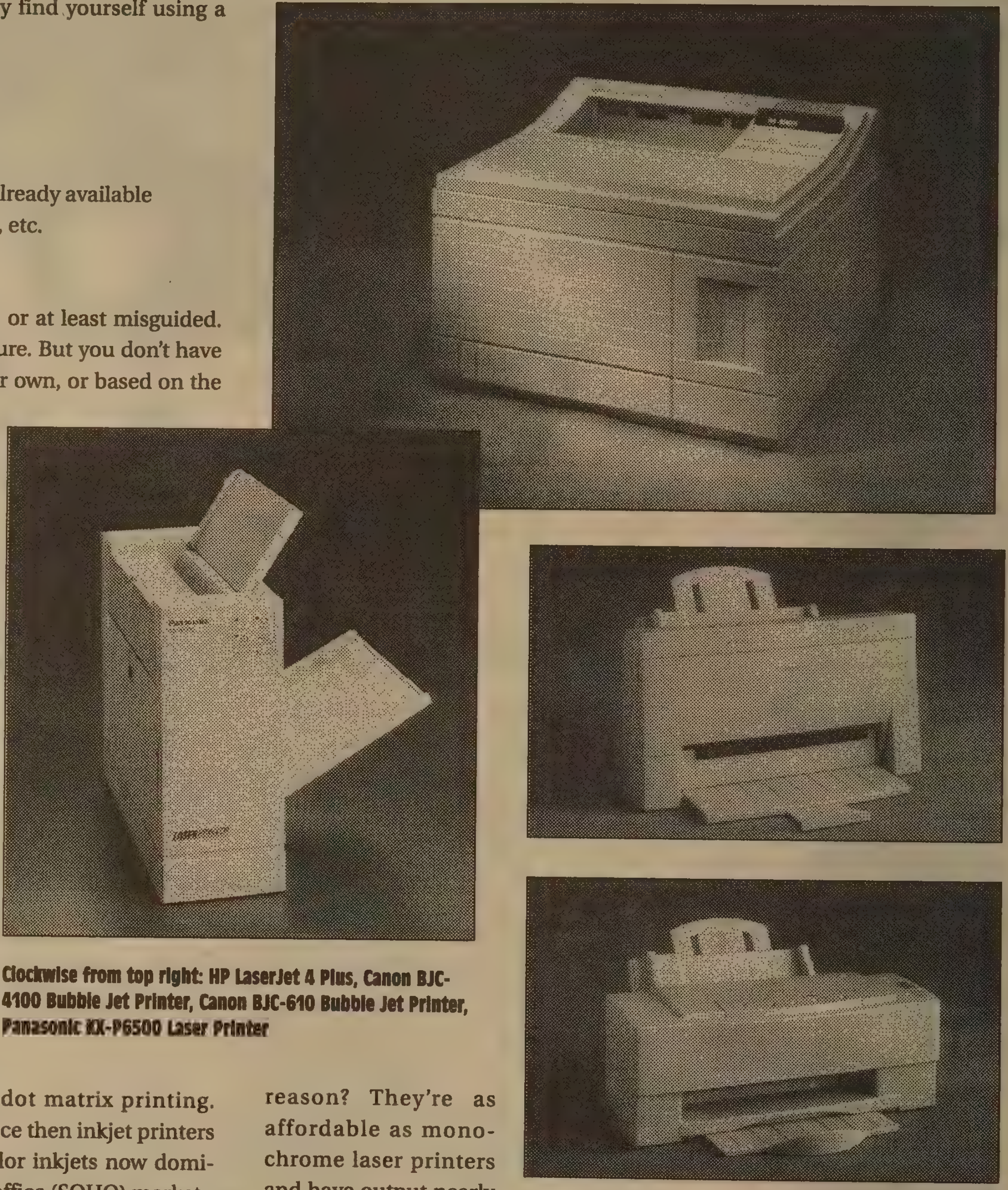
Selecting A Printer *continued...*

(LAN), or across a large enterprise, you'll probably find yourself using a few standard criteria:

- Price
- Functions required
- Volume
- Physical space available
- Printing, copying, scanning, and faxing resources already available
- Hardware resources on your system—types of port, etc.



Clockwise from top right: HP LaserJet 4 Plus, Canon BJC-4100 Bubble Jet Printer, Canon BJC-610 Bubble Jet Printer, Panasonic KX-P6500 Laser Printer

First Clue: Market Share

Sure, thousands of users can sometimes be wrong, or at least misguided. Look at the history of cigarette smoking in our culture. But you don't have to make your purchase decision completely on your own, or based on the opinions of a handful of people. You can check market shares before you pull out your checkbook.

Unless you have unusual requirements, many other computer users have printing needs similar to yours. A fair number have researched the question before they ponied up any cash, and you can often save yourself some effort by letting them do your basic research for you.

Right now, market shares proclaim that it's an inkjet world for low and moderate volume printing. You'll see these devices called DeskJets and BubbleJets as well as the more generic term inkjets, but it's all the same basic technology: Ink is sprayed onto the paper in tiny droplets, to form the shapes of letters or graphical images.

Not that the market is dominated by the old not-quite-ready-for-prime-time monochrome inkjet printers that advertised and barely delivered "near laser quality" a couple of years ago. True, those early inkjet devices weren't perfect, but they raised the standard for output quality in homes and small offices and helped usher out dot matrix printing. Suddenly, 24-pin dot matrix output lost its luster. Since then inkjet printers have dramatically improved, to the point where color inkjets now dominate, especially in the home and small office/home office (SOHO) market.

That's not to say laser printers have faded away into specialty niches the way dot matrix printers have done. According to many experts, monochrome printers still meet the printing needs of most users. But the closer you look at it, the more you'll attribute much of today's laser printing to the existing installed base.

Black-and-white laser printing can handle higher volume printing tasks; it's an effective way to make original black-and-white color separation masters for offset monochrome and color printing. Even if monochrome laser printing meets most users' "needs," it no longer seems to satisfy users' "preferences."

Inkjet Vs. Laser

For many, a laser printer is fast becoming a second choice to an affordable color inkjet printer. The primary reason? The impact of color. Secondary reason? They're as affordable as monochrome laser printers and have output nearly as good.

It makes sense. Take two sales proposals of equal value, sitting side-by-side on the desk of a harried potential customer. Yours is crisply printed in black-and-white by a good laser printer. The competition's is printed at somewhat lower resolution, in color. Which do you think will first draw the customer's eye? Remember, the first one to be picked up becomes the one to beat, the standard against which anything else is measured.

In fact, color starts out ahead of the game in any situation where visual impact is important: posters, business reports, the kids' homework, you name it.

Some Laser Advantages

Laser printers still have some convincing advantages in many situations.

Inkjet output can sometimes bleed, smear, or smudge when you handle

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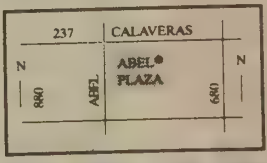

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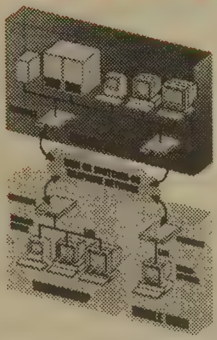
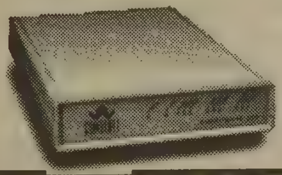
The Combinet EVERYWHERE 2000 Series access unit provides remote offices and workgroups access to an enterprise LAN using Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI).



The EVERYWHERE 2000 Series is compatible with any computer with an Ethernet interface, and allows remote access to all applications and data resident on an enterprise network.



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- Circuit - Level Gateway - With all the connections being Circuit-Level connections, it allows you to enable outgoing Telnet, FTP, WWW, Gopher, AOL and your own user defined applications.
- Applications - The firewall server includes support for several standard applications such as Mail, News, WWW, FTP, and DNS.
- Audit Trails and Alarms - The firewall server has comprehensive audit and logging capability and provides alarms when probing is detected.
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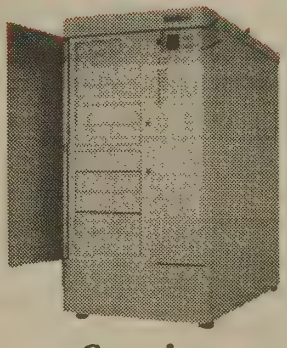

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Selecting A Printer *continued...*

it, especially if you have damp hands or use cheap-o paper: Inkjet inks do not bond as completely to the paper as do heat-bonded laser toner inks. They also are water soluble to some extent, so a coffee ring can do more than just leave a stain; it can actually run the ink. This state of affairs is changing, however, as chemists work on the problem. (Canon, for one, keeps more than one hundred scientists employed full-time improving inks and nozzles for their BubbleJets.) Also, the inkjet printer's output does better on more expensive, water-resistant paper, or on the much more expensive coated paper made for the purpose.

Laser printers produce crisper results with higher true resolutions, currently up to true 1200 dots per inch (dpi), as opposed to software-interpolated dpi. Laser printers also print faster than inkjets, typically producing four to twelve pages per minute (ppm), compared with a color inkjet's one to three minutes per page. And you'll find a much wider selection of laser printer makes and models from which to choose, another advantage.

Laser printers also cost less to run because their consumable supplies tend to be less expensive. This difference is shrinking fast for inkjet monochrome printing, but even so you'll probably more than make up the dif-

SOME BUYER'S TIPS

THE THREE MOST IMPORTANT CONSIDERATIONS when picking a printer are money, volume, and output. How much can you spend, how many copies of an original will be needed, and what quality of printed output do you need? After that, you should consider questions like where you will put it, extra features needed, and the like.

When you count costs, don't forget to include cost of consumables as well as the initial cost of the printer. This is easy to overlook, but the cost of ink and toner cartridges, paper, and power consumption varies from one printer to the next.

A printer's output can vary even more. Make sure the printer's rated dpi, ppm, colors, fonts, form sizes, and paper handling all meet your needs. Don't forget to consider both speed and paper path, too. If you'll just be printing standard pieces of letter stock for distribution in an office, or large spreadsheet outputs and database reports, you may want to pass up extremely high resolution in favor of fast production of 12ppm or so. But if you will print a wide variety of paper types, and perhaps even envelopes or 80lb. cover stock, you'll need a machine that provides at least an optional straight-through paper path.

A related question has to do with a printer's job-handling and other special features. What are its paper tray capacity, memory, PCL and/or PostScript versions, and complex document capabilities? Some printers can print duplex (both sides of the paper) and collate the output, while others can't. Especially with laser printers, look for one that is Energy Star compliant, meaning it goes into power-down standby mode when the printer has not been used for awhile.

How much memory do you need? Half a meg was fairly standard at one time, but it is not enough for any but the most casual use. Some printers use memory compression to stretch what they have, while others like HP units let you add memory cards. You'll need extra memory, at least 2MB and probably 4MB or more, if you expect to run PostScript, since the printer itself does much of the processing in such systems.

Tip: Be sure to find out how much memory is required to print a full graphics page at the highest resolution; the base price of printers often does not reflect the cost of the memory that will have to be added in order to print complex documents at the highest-rated resolution.

Look also at the printing options. What size paper can it accept? All printers can handle legal and letter size paper, but some users also need to print on undersized forms, heavier stock, or even tabloid-sized sheets. This alone can take an otherwise perfect printer out of the game. Also, if you sometimes need to go right to the edge of the paper (for example, with graphics output) you may need to invest in a paper cutter as well as a printer, and print on oversized paper. So do look at the margins. Most printers have 1/2" or so of blank paper around the edges, but some have as little as 1/4". Avoid printers that impose a 1" margin on the output.

Tip: If your particular use requires bleeds (ink to the edge of the page) you will need to consider this and go to a larger-format printer.

Most printers have control panels on the top front, but some are more convenient to use than others. Look for a control panel that is clear, not cryptic. The best ones have LCD readouts that are very clear about what is happening. Some models come with software that also gives complete on-screen control, so you don't have to get up and walk over to the printer to see what's going on or to change settings.

A printer's physical size can make a big difference. If you have limited space, you might trade output speed for a smaller unit that fits easily into a corner somewhere. A less obvious space-related question is, how do you clear paper jams? They're not as common as they once were, but they still happen. Depending on where you will put the printer, you might bypass one that opens, say, by swiveling the top up and back, in favor of one with a front or side panel that swings out. Paper tray locations also can make a big difference in a small space.

As for what type of printer to get, we've described the most important considerations elsewhere in this article. One extra point: Think carefully before investing in a multifunction printer. They're great gadgets, but if you don't need one, for now at least you may be better off sticking with individual components. Whether you do need one depends at least partly on what functions you have left to fill. If you only need a printer, spend less for better results by just buying a printer.

On the other hand, if you also need a light-duty copier, and would love to have a scanner available for occasional use but lack the budget for it, a multifunction printer may be just the thing. Especially in a SOHO situation, integrating multiple functions in a single box on one desktop can have enormous appeal.

Here are some budget-oriented printer solutions:

Low budget: $150–$350

- dot matrix
- monochrome inkjet

Medium budget: $350–$900

- color inkjet
- personal laser

Higher budget: $900–$2500+

- color inkjet
- dye sublimation
- thermal wax
- PostScript laser

Here are possibilities listed by type of output:

Text documents: PostScript laser, PCL laser, inkjet
Text/graphics documents: PostScript laser, PCL laser, inkjet
Color documents: color inkjet (laser for high volume)
Forms: dot matrix
Presentations: thermal wax, color inkjet
Photographs: dye sublimation

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*Other Configurations Available

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PENTIUM 90/100 SYSTEM

- Intel Zappa Motherboard w/256K Cache, EIDE/ I/O, Triton Chipset
- Intel Pentium 90/100 CPUwith fan
- 8MB of RAM
- 1.44MB Floppy Drive
- Western Digital 1.2GB IDE Hard Drive
- Diamond Stealth 64, PCI, 2Mb Video Card
- 15" Super VGA, NI, 0.28 Monitor
- 101 Enhanced Keyboard
- Microsoft Mouse
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- Package of Windows 95/DOS 6.22 & Windows 3.11

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Pentium 75-150 MHz w/256k Cache, Triton Chipset (ASUS)	$215
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US robotics 28.8/28.8 Fax/modem internal	$185
28.8/28.8 Fax/modem internal	$115

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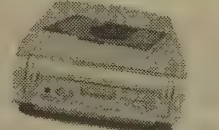

Sound Blaster 16MCD	$79
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SCSI	Adaptec 1542	$165
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SCSI	Adaptec 2940/2940W	$195/210
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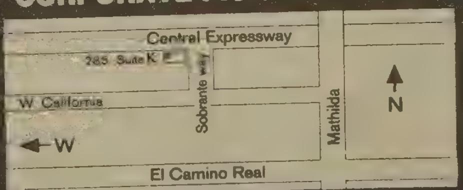

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Selecting A Printer *continued...*

ference in initial cost over the life of the machine if you buy a laser printer.

For that matter, even the initial cost differences are shrinking. Remember the headlines when Canon and HP came out with laser printers under $1000? Panasonic is shipping a "personal" laser printer, the 6100, carrying a $399 list price and a street price of $325–$350. That price is directly competitive with inkjet printers. The machine produces true 300dpi resolution with dot interpolation improving it to what the firm calls 600dpi-class performance. Another new Panasonic laser printer, the 6500, has true 600dpi resolution with 1200dpi equivalent performance. It lists for $595 and sells for around $495, just below the magic $500 mark that brings it into the mass market. The just-released HP 5L personal laser printer, which lists for $499 and has a street price of about $440, is also a good choice in the under-$500 laser printer market.

Tip: Personal laser printers are, of course, also offered by HP, Epson, Brother, Lexmark, and others, but the Panasonic 6100 has one of the lowest street prices in its class for now. Panasonic has been backing away from higher-end laser printers and is concentrating its efforts on producing lower-cost personal laser printers and printer engines.

These two low-cost Panasonic personal laser printers are impressive little machines, but not perfect. They couldn't be, not at those prices. Half of good engineering is the ability to strike acceptable trade-offs between dead-on five-star quality and small, cumulative savings in the cost of making something. To produce laser printer performance with street prices under $500, the Panasonic printers require Windows to run, are slow compared with more expensive laser printers, use quite a bit of the host system's RAM, and consume a lot of the computer's processing power.

In the real world, those under-$500 street prices make such trade-offs fairly easy to live with. For higher volume print jobs a savvy personal computer user can even use one of these personal laser printers to do their own good quality "camera ready" black-and-white plates and color separations, then turn the job over to a commercial print shop.

According to Panasonic spokesperson Nancy Garry, the firm's low-cost 6100 and 6500 models are aimed straight at the SOHO market. Their output speed of 6ppm outperforms an inkjet printer, even though 6ppm is decidedly middle-of-the-pack when compared with other laser printers. Personal laser output, while better than inkjet printing, isn't quite as crisp, and the blacks aren't as dense or smoothly applied, as the higher-end laser printers.

Laser printing technology is still developing fast. Before too long you can expect to see moderately priced mid-range models with greater than 1200dpi resolution that are faster than 16ppm, as well as more improvements in entry-level personal laser printers. These anticipated advances, combined with typically good performance and low operating cost, will probably keep printers in the marketplace for a long time yet.

Color Laser Printing

Color laser printers on the market include the HP Color LaserJet and Apple's Color LaserWriter, plus a few others. However, they all cost more than $3000, which limits their appeal pretty much to the higher end of the color printing market. Even if a SOHO user has the budget for one of these beasts, they are large, noisy, and have an unseemly appetite for electricity compared to a color inkjet printer.

The HP Color LaserJet weighs too much to ship by UPS (102.5lbs.) and it takes two very strong backs just to lift it safely onto what had better be a sturdy desktop. This is not what every office manager hopes for in a printer. Released several months after HP's, Apple's Color LaserWriter is slightly heavier (110lbs.). The Apple printer is, however, $900 less expensive, has over twice as many resident fonts, and offers twice the resolution, has more base memory, and has a faster processor.

It also prints faster than the HP Color LaserJet. The Apple Color LaserWriter prints 3ppm in color and 12ppm in monochrome, compared to the HP Color LaserJet's 2ppm in color and 10ppm in monochrome.

Actually, in spite of their bulk and cost we've found both of these printers to be quite good. There are also numerous other color printers in the high-end color printing market segment, using a variety of technologies including phase-change, solid ink, thermal wax-transfer, dye-sublimation, and a combination of thermal wax-transfer and dye-sublimation. But in general these units are far beyond the budget of most home and business users. They tend to be found in graphic arts houses and services bureaus, not in individual home and small businesses. They are, however, quite useful for checking the color pages of high-volume print jobs prior to going to film, an instance where errors can get very expensive.

According to desktop publishing expert James Peugh of the Web-based *Citivu Magazine*, (*http://www.citivu.com*), most midrange home and SOHO users are still probably better off with two printers: a color inkjet for jobs that need visual impact; a monochrome laser for standard moderate-volume printing tasks and occasional output for plate making. "Unless your business is printing or you have lots of work, service bureaus are hard to beat for occasional high-quality imaging for volume printing. They have the needed quality and expertise, and jobbing work out to them saves you from having to make a much bigger hardware investment," says Peugh. We agree.

Multifunction Printers

All-in-one devices are emerging as a hot new item, especially in the much sought-after SOHO market. For the most part, the technology has been around for a couple of years, but not at a performance/price point to make it attractive to the mass market. For that, they needed a critical mass of functions and a break in the magic $1000 price barrier, and now they've done it. As a result, they're selling in more volume, which brings the price down even further; if that cycle continues, soon they'll be standard equipment in a lot of homes and small offices.

In practice, what these machines do is combine the functions of various paper-handling devices into a single box. The integrated functions include some combination of printer, fax, scanner, copier, and sometimes even a modem.

These capabilities can have considerable appeal for home and SOHO users not yet equipped with these functions. One advantage is this single, integrated device will only take up one place in what is often a limited amount of available space. Another advantage is every "device" (function) will be covered by a single warranty, making warranty repairs simpler if something goes wrong.

On the downside, forcing all these functions into a single box means that if anything breaks, the whole unit is out of service until it comes back

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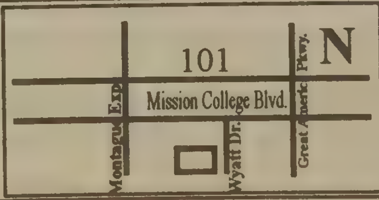

Selecting A Printer *continued...*

from the shop. Multifunction printers also tend to suffer from some compromises, such as the quality of printing and scanning. Simultaneous functions are supported at a somewhat basic level, but when you're printing a long job you can't use the waiting time to copy other papers. The copier is also the printer, so they're both in use. Also, you can't upgrade just one function at a time, a limitation that can take a bite out of your wallet: You can't get any trade-in credit for existing equipment unless you're willing to trade in the whole shebang.

As the technology matures, the engineering trade-offs are disappearing. For example, you no longer have to assume a multifunction box can only produce 200dpi output, or scan at 200dpi. Higher resolutions such as 300 x 300 are frequently supported in the latest generation of these machines.

The Bottom Line: Color Inkjets Are Taking The Lead

In spite of the advantages of laser printers, many personal computer users are choosing color inkjet printers. The sales figures prove it. The consensus seems to be that color's superior impact far outweighs the trade-offs of lower resolution, occasional smudging, higher consumable costs, slower printing, and somewhat greater mechanical complexity.

As a result, color inkjets frequently appear on hardware "best seller" lists. For example, in September the Canon 4000 BubbleJet was the best-selling printer, bar none, at Ingram Micro, the nation's largest computer distributor. And the Canon 4000/4100 BubbleJets and the HP 660C/660Cse Color DeskJet printers move like wildfire at computer superstores including CompUSA, Computer City, and Fry's.

No doubt the growing demand for color inkjets follows partly from their affordable base price. Both HP and Canon have solid models with street prices as low as $350. That has made them a staple on the shelves of PC retailers and mail order ads, as well as at computer superstores.

Tip: The HP 660Cse, which supersedes the 660C, is being bundled with Brøderbund's Print Shop Deluxe CD. The Canon 4100, which supersedes the 4000, is being bundled with the Canon Creative CD containing Hallmark Connections Everyday Greetings card application, Crayola Art coloring and drawing program, Pattern Maker, Stationery Store, Sticker and Label Store, and assorted fonts and clip art. Both of these printers support "dual" ink cartridges, which means changing from color to black printing doesn't require switching cartridges and blacks will always be "true" instead of "mixed" blacks. The HP 660Cse printer driver software supports double-sided printing by prompting the user to flip the paper. The Canon 4100 comes with a sample pack of transfer paper for making custom T-shirts.

Industry analysts predict the $1 billion inkjet printer market will grow to $4 billion by 1998. By all indications, color inkjet printers are becoming the dominant printer of today for low- and moderate-volume printing. By the end of this year, analysts feel inkjet printers should account for 70% of all printer sales; more than 90% of inkjet printers will be color. Laser printers are then expected to have about a 22% market share, and dot matrix and special printers should have the remaining 8% of the market.

The High Cost Of Consumables

To some extent, King Gillette's philosophy of giving away the razor to sell the blades may account for the cost of inkjet printer consumables. While the cost-per-page for monochrome laser printing is about $.05, for color inkjet printing on plain paper the cost-per-page jumps to around $.25 for a typical color document with 20% coverage. Coated or other special paper further adds to the cost. Bear in mind that, in spite of manufacturer claims to the contrary, the best quality color inkjet output often does require special inkjet "coated" paper that costs considerably more than standard 20lb. bond.

Paper costs alone can make a big difference. Office Depot, Staples, and Price Club offer 20lb. bond paper suitable for laser printers and basic (but not presentation) inkjet printing for about $35 a case. A case holds ten reams of five hundred sheets each, making the cost $3.50 per ream. Water-resistant inkjet paper goes for about $15 for a package of two hundred sheets. Coated inkjet paper costs about $25 for a package of two hundred sheets. It's hard to find by the ream and almost impossible to find by the case, at the retail level at least. It may cost more, but using special paper makes a visible quality difference especially on a page with photographs or other high-resolution images.

Michael Weissman, vice president of printer marketing for Canon Computer Systems, Inc., explains that recent improvements in inks and nozzle designs are making special inkjet paper unnecessary. Sample printing tests we made appear to bear this out. The newer inkjet printer designs have faster-drying, smudge-resistant inks, he says, and adds that BubbleJet printers (Canon's term for inkjet technology) are getting quieter as well. Both factors should make these printers increasingly attractive to commercial and office users.

Hewlett-Packard and Canon are fierce competitors in the inkjet printer market. HP's market share has declined from greater than 90% three years ago to about 50% today. In the three years since Canon started selling inkjet printers for personal computers their market share has grown from a modest 3% to over 30%.

Tip: The Canon 4100 comes with a three-year instant replacement warranty and toll-free technical support. The HP 660Cse comes with a one-year warranty and toll-call technical support. The HP 660Cse ink cartridges cost $5–$10 more but include a new print head. The HP 660Cse's sturdy paper input and output trays are at the front of the printer, bending the paper more but taking slightly less space on the desktop. The Canon 4100 has a front output tray and rear/vertical input tray, offering a better paper path but taking slightly more space during printing. Unlike the HP 660Cse, however, the Canon 4100 input and output paper trays can be folded up when the printer isn't in use.

Resolving The Image

To a large extent, the resolution you get with an inkjet printer depends on how much you pay. A typical inkjet uses sixty-four nozzles for black ink and from forty-eight to seventy-two for color. The resulting inkjet resolutions include 300 x 300, 300 x 600, 600 x 600, and (at the higher end) 720 x 720.

It was long the rule that less costly models offered better monochrome than color resolutions, but that is changing. With newer, more advanced inkjet printers, even moderate-cost models may offer the same high resolutions for both monochrome and color printing. For example, the Canon BubbleJet 610, at a street price of about $560, supports 720 x 720dpi in both monochrome and color.

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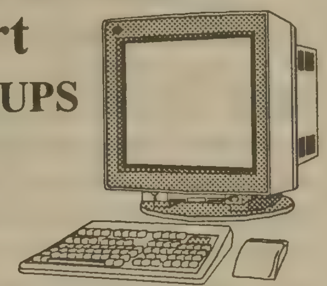

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BASIC 486 DX4-100

486 DX4-100 INTEL W/256K
8MB RAM 70NS 72 PINS (MAX 128MB)
425 MB HARD DRIVE
PCI IDE CONTROLLER
2 SEL, 1PARALLEL,1GAME
PCI SVGA CONTROLLER 1MB
1.44MB FLOPPY DRIVES
14" SVGA MONITOR .28 DIGITAL
MINI TOWER CASE
101 ENHANCED KEYBOARD
MICROSOFT COMPATIBLE MOUSE

$1079

Soft Solutions

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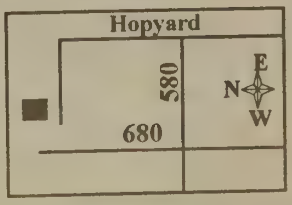
Dublin CA 94568
510-803-1358 Tel:
510-803-1372 Fax:



MON-FRI..........9-6
SATURDAY...11-4

All prices subject to change without notice
We are not responsible for typeographical errors
All prices subject to cash and stock availibilty

Some Good Examples

THERE ARE MANY GOOD PRINTERS ON THE MARKET (AND A FEW DOGS, TOO). Picking one can be like picking the right PC: So many variables come into play that it's impossible to cover everything in one article. Magazines devote whole editions to printers without beginning to exhaust the field. And something as simple as a store sale near your office can change the entire picture when it comes time to pull out your credit cards.

Here are some very good products in the major categories we've covered, in various price ranges:

Color Laser Printers

Hewlett-Packard Color LaserJet

Suggested price: $7295
Warranty: one year on-site
Colors: color and monochrome
Print speed: 2ppm
Resolution: 300dpi
Printer emulation: HP LaserJet (enhanced PCL 5), HPGL
Energy Star compliant: yes
Interfaces supported: parallel
Compatible with: IBM PC, Apple Macintosh
Processor chip: AMD29030
Clock rate: 20MHz
Base RAM: 8MB
Maximum RAM: 72MB
Input tray capacity: 250 sheets
Output tray capacity: 100 sheets
Paper size(s): letter, legal, ledger, executive, A3, transparencies
Duty cycle: 15,000 pages per month
Fonts included: 45 resident
Automatic interface switching: yes
Simultaneous active ports: yes
Additional functions: monochrome printing at 10ppm
Height: 14.8"
Width: 24.4"
Depth: 14.3"
Weight: 102.5lbs.

Apple Color LaserWriter 12/600 PS

Suggested price: $6400
Colors: color and monochrome
Print speed: 3ppm
Resolution: 600dpi
Printer emulation: PostScript Level 2
Interfaces supported: parallel; AppleTalk, SCSI-2, Ethernet
Compatible with: Apple Macintosh, IBM PC, UNIX workstation(s)
Processor chip: AMD29030
Clock rate: 30MHz
Base RAM: 12MB
Maximum RAM: 40MB
Input tray capacity: 350 sheets
Paper size(s): letter, legal, A4, B5, envelopes, transparencies
Print engine life: 150,000 (color), 300,000 (monochrome) pages
Fonts included: 104 resident
Automatic interface switching: yes
Simultaneous active ports: yes
Additional functions: monochrome printing at 12ppm, color transparency printing at 1ppm
Height: 18"
Width: 21"
Depth: 23"
Weight: 110lbs.

Monochrome Laser Printers

Lexmark Optra Lxi

Suggested price: $3199
Warranty: one year on-site
Colors: color and monochrome
Print speed: 16ppm
Resolution: 1200dpi
Printer emulation: PostScript Level 2, HP LaserJet (enhanced PCL 5)
Automatic emulation switching: yes
Energy Star compliant: yes
Interfaces supported: serial, parallel, Ethernet
Compatible with: IBM PC
Processor chip: AMD29030
Clock rate: 25MHz
Base RAM: 8MB
Maximum RAM: 64MB
Input tray capacity: 1000 sheets
Output tray capacity: 500 sheets
Paper size(s): letter, legal, A4, envelopes, transparencies, card stock
Duty cycle: 75,000 pages per month
Toner cartridge life: 7000 pages
Number of fonts included: 87 resident
Automatic interface switching: yes
Simultaneous active ports: yes
Noise level: 48dba
Max. form width: 9"
Additional functions: 1200dpi resolution at 8ppm
Height: 22.3"
Width: 16.1"
Depth: 21.1"
Weight: 65lbs.

HP LaserJet 4 Plus and 4M Plus

Warranty: one year
Colors: color and monochrome
Print speed: 12ppm
Resolution: 600dpi
Printer emulation: HP LaserJet 4 (enhanced PCL 5), PostScript Level 2 (for "M")
Automatic emulation switching: yes for "M"
Energy Star compliant: yes
Interfaces supported: serial, parallel, AppleTalk, Ethernet
Compatible with: IBM PC, Apple Macintosh
Processor chip: i960
Clock rate: 25MHz
RAM included in base model: 6MB
Maximum RAM: 38MB
Input tray capacity: 100 sheets
Output tray capacity: 250 sheets
Paper size(s): letter, legal, executive, A4, envelopes, transparencies, labels
Duty cycle: 20,000 pages per month
Fonts included: 80 resident
Automatic interface switching: yes
Simultaneous active ports: yes
Noise level: 55dba
Max. form width: 11"
Height: 11.7"
Width: 16.6"
Depth: 15.9"
Weight: 37lbs.

Panasonic KX-P6100

Suggested price: $499
Warranty: one year
Colors: monochrome printer
Print speed: 6ppm
Resolution: 600dpi
Energy Star compliant: yes
Interfaces supported: parallel
Compatible with: IBM PC, Apple Macintosh
Input tray capacity: 100 sheets
Output tray capacity: 50 sheets
Paper size(s): letter, legal, A4, envelopes
Toner cartridge life: 1000 pages
Double-sided printing: yes
Noise level: 45dba
Form width: 9"
Height: 11.3"
Width: 5.2"
Depth: 14.9"
Weight: 14.4lbs.

Panasonic KX-P6500

Suggested price: $595
Standard warranty included: one year
Colors: monochrome printer
Print speed: 6ppm
Resolution: 600dpi
Printer emulation: HP LaserJet IIP (PCL 4)
Automatic emulation switching: yes
Energy Star compliant: yes
Interfaces supported: parallel
Compatible with: IBM PC
Base RAM: 512K
Maximum RAM: 4.5MB
Input tray capacity: 100 sheets
Output tray capacity: 50 sheets
Paper size(s): letter, legal, executive, A4, envelopes, transparencies, labels
Print engine life: 15,000 pages
Toner cartridge life: 2000 pages
Fonts included: 14 resident
Double-sided printing: yes
Buffer: 512K
Height: 11.3"
Width: 5.2"
Depth: 14.9"
Weight: 14.4lbs.

Inkjet Printers

Canon BJC-4100

Suggested price: $399
Warranty: two years
Resolution: 720 x 360dpi
Print speed: 0.8ppm
Colors: color and monochrome
Compatibility: IBM PC
Emulations: IBM Proprinter X24E, Epson LQ-2550
Interfaces: parallel
Input tray capacity: 100 sheets
Paper size(s): letter, legal, A4, envelopes, transparencies, labels, card stock, high gloss and back print film, T-shirt transfers, fabric sheet
Resident fonts: 307
Noise level: 47dba
Buffer: 34.5K
Additional functions: includes Canon Creative CD-ROM software collection

LIFETIME LABOR WARRANTY, ONE YEAR PARTS ON ALL COMPUTERS!
ALL SYSTEMS WINDOWS 95, & NT, OS/2 COMPATIBLE • UPGRADES • NETWORKS

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PENTIUM® MULTIMEDIA SYSTEM

- Motherboard with Pentium® Chip
- Flash Bios w/Triton Chip
- 8MB RAM exp. to 128MB (72-pin)
- 850MB Hard Drive, 10ms
- Diamond Stealth 64 PCI Video w/2MB
- Built-in IDE/IO Controller (16550)
- Toshiba Quad-Speed CD ROM Drive, 170ms
- MCD 16-Bit Sound Card w/Speakers
- 1.44 Floppy Drive
- 15" SVGA .28 Non-Int. Color Monitor 1280x1024 w/Digital Control
- Mini-Tower Case w/230W Power
- 101 Keytronic Keyboard
- MS Mouse w/Pad
- 15 CD Titles Included
- Free Microsoft Windows 95 or Microsoft DOS 6.22 & Windows 3.11

Pentium® 75	**$1569**
Pentium® 90	**$1619**
Pentium® 100	**$1658**
Pentium® 120	**$1698**

SUPER POWER
PENTIUM® SYSTEMS

- Intel Zappa or Endeavor Motherboard with Intel CPU & Fan
- 256K External Cache
- **8MB RAM**
- **850MB 10ms IDE Hard Drive**
- Teac 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth 64 PCI with 2MB
- **15" SVGA .28 Color Monitor (1280x1024)/Digital Control**
- 101 Keytronic Keyboard
- Medium Tower w/PS
- Microsoft Serial Mouse with Pad
- Free DOS 6.22

Pentium®-75/256K Zappa	**$1395**
Pentium®-90/256K Zappa	**$1447**
Pentium®-100/256K Zappa	**$1490**
Pentium®-120/256K Zappa	**$1530**
Pentium®-90/256K Endeavor	**$1509**
Pentium®-100/256K Endeavor	**$1550**
Pentium®-120/256K Endeavor	**$1590**
Pentium®-133/256K Endeavor	**$1831**

DELUXE MULTIMEDIA SYSTEMS

- Motherboard with CPU
- **8MB RAM**
- **635MB Fast IDE Hard Drive, WD**
- VLB or PCI IDE with I/O
- VLB or PCI SVGA Card w/1MB
- **Double-Speed CD-ROM**
- 16-Bit Sound Card & Speakers
- 1.44MB 3.5" Floppy Drive
- 14" SVGA .28 Non-Int. Color Monitor
- Mini Case with 230W PS
- FCC 101 Keyboard
- Microsoft Serial Mouse with Pad
- 15 CD Titles Included
- Free Microsoft Windows 95 or Microsoft DOS 6.22 & Windows 3.11

IBM 486-75	**$1093**
486DX2-66 /256K VLB	**$1105**
486DX2-80 /256K VLB	**$1110**
486DX4-100 /256K VLB	**$1155**
Pentium®-75 /256K PCI	**$1291**
Pentium®-90 /256K PCI	**$1343**
Pentium®-100 /256K PCI	**$1380**

PENTIUM® SYSTEMS

- Motherboard with CPU
- 256K External Cache/Triton Chip
- **8MB RAM**
- **850MB 10ms IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- Built-in IDE/IO Controller (16550)
- PCI SVGA Card w/1MB, 64 Bit
- **14" SVGA .28 Non-Int Color Monitor**
- Mini Case with 230W PS
- FCC 101 Keyboard
- Microsoft Serial Mouse with Pad
- Free Microsoft DOS 6.22

Pentium®-100/256K PCI	**$1238**
Pentium®-75 /256K PCI	**$1144**
Pentium®-90 /256K PCI	**$1196**
Pentium®-120 /256K PCI	**$1278**

486 BEST BUY SYSTEMS

- Motherboard with CPU
- **4MB RAM**
- **635MB Fast IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- IDE 2HD/2FD Controller with I/O
- VLB SVGA Card w/1MB
- **14" SVGA .28 Non-Int Color Monitor**
- Mini Case with 230W PS
- FCC 101 Keyboard
- Mouse with Pad
- Free Microsoft DOS 6.22

IBM 486-100MHz	**$807**
486DX2-66 /256K VLB	**$804**
486DX2-80 /256K VLB	**$814**
486DX4-100 /128K VLB	**$853**
486DX4-120 /256K VLB	**$908**

486PRO PCI SYSTEMS

- 486 CPU w/Fan
- 486 PCI Motherboard/Zif/256K
- AMI BIOS
- **8 MB RAM, 72 Pin, 70ns**
- **540MB IDE Hard Drive**
- 32 Bit VLB IDE Controller
- 1.44 MB Floppy Drive
- PCI 64 Bit
- SVGA Card w/1MB
- FCC Keyboard
- Medium Tower Case w/230W PS
- Free Microsoft DOS 6.22

486DX4-120 /256K VLB	**$820**
486DX2-66 /256K PCI/VLB	**$719**
486DX2-80 /256K PCI/VLB	**$728**
486DX4-100 /256K PCI/VLB	**$764**

MOTHERBOARD W/O CPU

IBM	
Blue Lightning 100MHz w/Math/128K	$135
INTEL	
Pentium® 90/120/133 256K 3 PCI (Zappa) w/IDE & I O (16550)/ Triton Chip	$215
New Intel Endeavor Pentium® Motherboard w/Sound Blaster/256K	300
VLB 486 w/256K (30 & 72 Pin)	85
PCI & VLB 486 w/256K (72 Pin) w/PCI Controller	110
P5-75/90/100/120/132 w/IDE & I /O (16550) Triton Chip	160

MEMORY (Japanese)

1x3-70ns	$29
4x9-70ns, 9 chips	125
1x32 70ns, 72-pin, 4MB	119
1x36 70ns, 72-pin	129
2x32 70ns, 72-pin, 8MB	229
4x32 70ns, 72 pin, 16MB	439
4x36 70ns, 72-pin, 16MB	490

CPU'S

AMD	
AMD 486DX2-66MHz, 3V	$39
AMD 486DX2-80MHz, 3V	44
AMD 486DX4-100MHz, 3V	85
AMD 486DX4-120 (New)	105
Intel	
Intel 486DX4-100MHz	$89
Pentium®	
Intel P5-75MHz	$160
Intel P5-90MHz,	220
Intel P5-100MHz	260
Intel P5-120MHz	325
Intel P5-133MHz	420

CASE & POWER SUPPLY

Mini Tower Case w/230W PS Dig.	$31
Desktop Case w/230W PS Dig.	39
Mid Tower Case w/250W PS Dig	48
Full Tower Case w/250W UL Dig	70
230W Power	22

FLOPPY DRIVE

1.44 MB/1.2MB Mitsumi	$25/38
1.44 MB Teac	30
1.2 MB Teac	40

MOUSE

3-Button	$5
Logitech	
First Mouse	$25
Microsoft	
Microsoft Mouse Serial w/system	$20

CONTROLLERS

IDE 2FD/2HD W/2S/1P/1G	$10
VLB IDE WI/O Enhanced	15
VLB IDE I/O, 2S/1P w/16550 UART Chip +4HD/2FD	18
Adaptec	
1542CP w/Kit SCSI	$185
2940 PCI	184
2940W, wide SCSI	220

HARD DRIVES

540MB IDE 11ms	$157
635MB IDE 10ms (WD)	165
850MB IDE/Ext 10ms (WD)	180/315
1.2GB IDE 10ms/Ext	265/400
1.6GB IDE 9ms (WD)	349
1.0GB SCSI 9ms	291
2.0GB SCSI 7.5ms/Ext	600/780

KEYBOARDS

101 Enhanced Keyboard Click	$13
Keytronics 101-Enhanced	22
MS Natural Keyboard	75

TAPE BACKUPS

Conner	
420MB Int	$158 (W/Tape 164)
850MB Int	199
Colorado	
DJ-35 350MB Internal	$123
DJ-25 800MB Internal	199

VGA CARDS

C & T w/1MB VLB	$62
PCI w/1MB 64 Bit	72
w/1MB ISA	55
Diamond	
Stealth 64 PCI/VLB 1MB DRAM	$108/120
Stealth 64 PCI/VLB 2MB DRAM	145/156
Stealth 64 PCI 2MB VRAM	247
Stealth 64 VLB 4MB VRAM	396

MONITORS

14" VGA Mono	$83
14" Super VGA 1024x768 .28 NI	212
15" SVGA/Dig 1280x1024 .28DP	299
NEC Multisync XV15/XE15/XP15	428/538/564
NEC Multisync XV17/XE17/XP17	710/968/998
NEC Multisync XE21/XP21	1700/2050

FAX MODEM

14.4 Fax Modem Int	$37
14.4 Fax Modem Ext	59
14.4 Fax Modem w/Voice Int	49
28.8 Fax Modem w/V.34 Int	109
28.8 Fax Modem w/V.34 Ext	125
US Robotics	
Sportster 14.4 Fax Modem Int	$89
Sportster 14.4 Fax Modem Ext	108
Sportster 28.8 Fax Modem w/V.34 Int	216
Sportster 28.8 Fax Modem w/V.34 Ext	236

NETWORK PRODUCTS

16 Bit Ethernet Cards Coax	$20
16 Bit Ethernet Cards 10 Base-T	20
16 Bit Ethernet Cards Combo	24

CABLES

We carry all cables

DATA SWITCH

We carry a full range of Data Switch products

SUPER SALE

Micronics JX30 Motherboard VLB/IDE/IO/16550	**$110**
Simm Converter	**24**
Pentium® 66MHz CPU	**99**
Pentium® 60/66 Motherboard	**100**
3C509 ELINK Combo/3 Com	**69**
1.44 Floppy Disks Formatted	**22¢**
Trio SVGA Card w/S3, 2MB, PCI 64 Bit	**115**
Recordable CD Disk, 74Min	**12**

CD-ROM/SOUND CARD

Panasonic 2X, IDE CD-ROM	$50
Panasonic LMD-574 4X E IDE	118
Toshiba 5302B 170ms 4X CD-ROM	139
Sound Blaster AWE-32 Value	199
Sound Blaster AWE-32 Retail	220
Sound Blaster Pro 16 MCD	72
NEC 145ms 6X CD-ROM	379
True 16 Bit MCD Sound Card OS/2 Support Plus 15 CD Titles	58

SPEAKERS

Deluxe Speakers	$5
25 Watt/100 Watt Speakers	18/31
140 Watt Speakers	36
160W/160W w/Microphone	52/60

UPGRADING CHARGES

Labor charges are the following:

CPU & Memory Upgrade	FREE
System Diagnostic Checkup	$10
Multimedia Kit Installation	20
Installation for HDD	10
Video Card + Driver Setup	10
Install Motherboard	20
Install Floppy Drive	10
Install New & Power Supply	10
Install Tape Drive	10
Install Fax/Modem	10
Install Software/Setup	25
System Troubleshooting	30/hr

CD TITLES

Over 100 New Titles in Stock

Eureka Pack (14 Titles on 3 CDs)	**$31**

Compton Interactive Encyclopedia, Contraption Zack, D/Generation, Epic, F29 Retaliator, Life & Death II-The Brain, Mavis Beacon Teaches Typing, Might & Magic II, Push Over, Robo Cop 3D, The Chess Master 2100, The Chess Master 3000, US Atlas, World Atlas

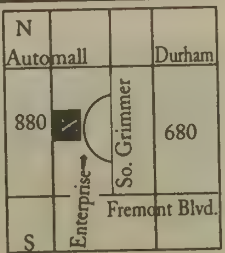
Microsoft Home Office Bundle	**$64**

Microsoft Encarta, Golf, Money, Works, Dangerous Creatures, Screen Saver, Microsoft Demo, w/system

101 Games	$8
'95 Encarta (*w/sale of system*)	25
'95 Grolier Encyclopedia 7.02	14
Arthur's Teacher Trouble	11
Compton's Interactive '95	17
CD Kids Games Collection	7
Chess Words	14
Just Grandma & Me	11
'95 MS Bookshelf w/system	28

AMERICA COMPUTER

4450 Enterprise Street #108, Fremont, CA 94538
(510) 226-0258 Fax: (510) 226-0261
Hours: M-S 8:30-7 Sun/Holiday 11-4



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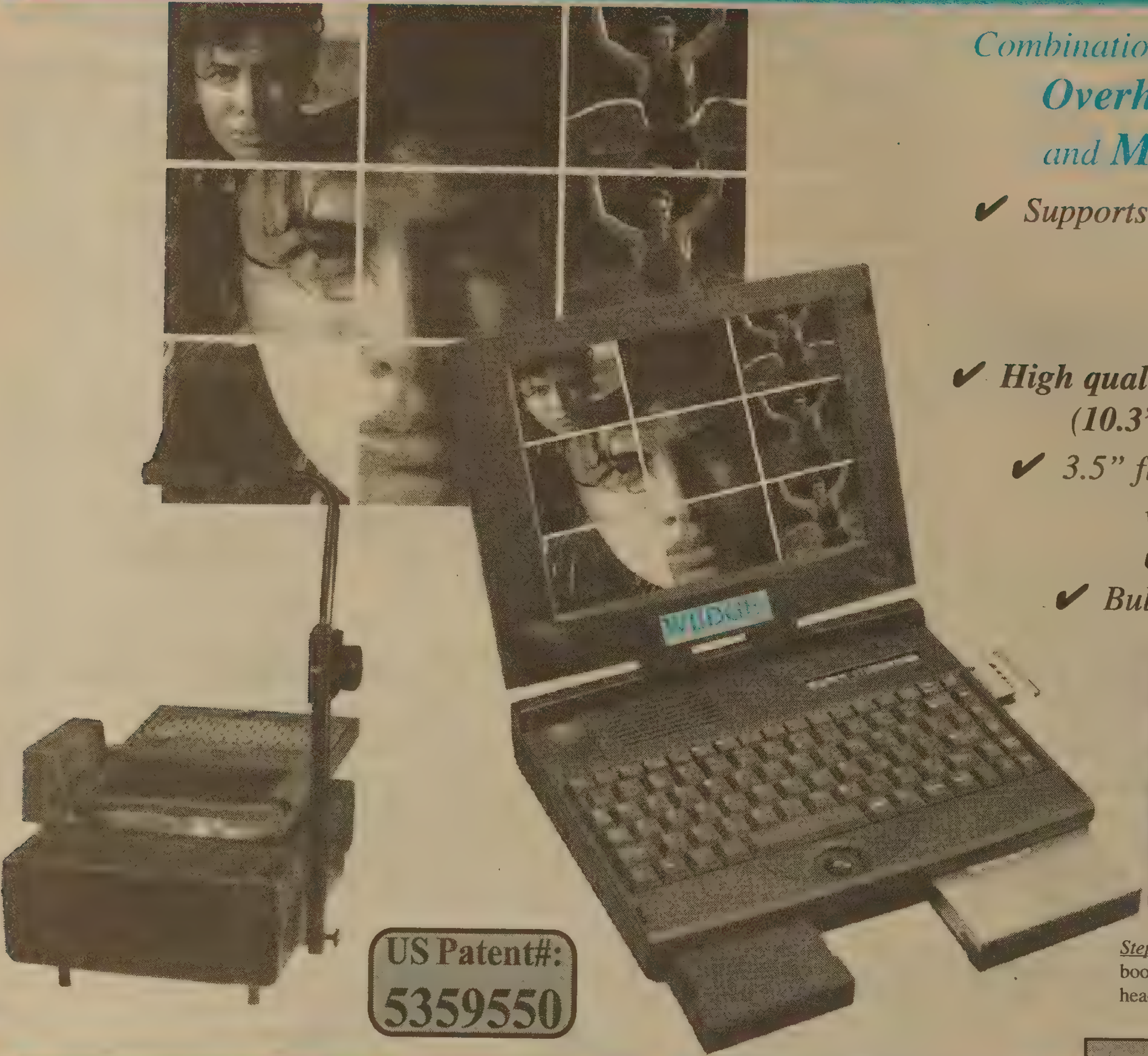
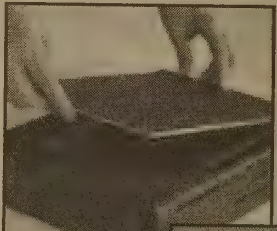
A Presentation Notebook with 6 ft. screen - Wedge ShowBIZ



Combination of

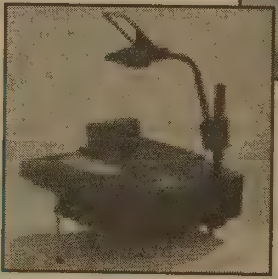
Overhead Projection Panel and Multi-Media notebook

- ✔ *Supports CPU speeds* ***Upto DX4-100***
- ✔ ***VESA*** *local bus design*
- ✔ *Enhanced* ***UART 16550***
- ✔ *Bi-directional* ***EPP/ECP***
- ✔ ***High quality ACTIVE COLOR*** *screen (10.3" LARGE Dual Scan screen)*
- ✔ *3.5" floppy drive* ***interchangeable*** *with* ***secondary battery pack***
- ✔ *Upto* ***5 hours*** *battery life*
- ✔ *Bulit-in* ***Audio, Mic & Speaker***



Step 1. Unclip the display's protective back panel and open the display to a 180 degree angle.

Step 2. Set the notebook on the overhead projector



Step 3. Clip on the cooling fan and you've got yourself a Winning Presentation.

WEDGE ShowBIZ	*6 lbs.*	*Starting at $2,899*	*Supports Std. OHP*	*Light and Portable*
Notebook + Brand X LCD panel	*20 lbs.*	*Starting at $4,999*	*Requires EXPENSIVE OHP*	*VERY HEAVY and CLUMSY to carry*

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- and many more...

... and start maximizing your Image.

... "I feel that your latest ShowBIZ PC notebook product has the right engineering, perfect convenience and very attractive price for business professionals like us"...

... "Our presentations include many bitmap pictures of actual plant equipment and these show up remarkably well on the screen even using the dual scan screen version of yor notebook. The speedy Intel DX4/100 chip and the large disk capacity availability for this machine now expands the horizon of live demos in areas that earlier were at best difficult if not impossible. Add to that the remote control mouse and you have now a real impressive demo tool for a large class of applications. All I can say is keep up the good work, because I think you have a winner of a tool for a vaiety of business and other professionals with a very affordable price."

Dr. Manesh Shah
Vice President of Engineering
International Pressure Vessel, Inc.

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OVER 15 YEARS OF PROVEN INTEGRITY AND TRUST

Desktop of the Month: Ready for Windows '95

- 100MHz 486 DX4 Processor
- 4MB RAM Expandable to 128MB on-board
- 540MB Hard Disk Drive
- 1.44MB 3.5" Diskette Drive
- Enhanced Windows Accelerator with 1MB Video
- Enhanced IDE with 16550 UART and EPP/ECP
- Dual Speed CD-ROM
- 14" Super VGA 0.28 Non-Interlaced Monitor
- 16-bit Sound card with MIDI Hi-Fi Synthesizer and Speaker
- 14.4 Send/Receive Fax/Modem
- 101 Enhanced Keyboard
- Ergonomic Mouse
- Microsoft DOS 6.22
- Microsoft Windows for Workgroup

Multimedia PC - ONLY $1,199

All other speeds with customized configuration are available

PC MAGAZINE EDITORS' CHOICE September 95

Wedge PENTIUM 75-166MHz PCI-ISA Motherboard

- Intel Pentium 75/90 ... 166/180/ 166MHz
- Supports upto 128MB of RAM
- 6 SIMM 72-pin sockets supports 3.3V & 5V DRAMs
- 256K/512K Pipeline cache option
- PCI bandwidth > 100MB/S
- 4 x PCI bus MASTER slots & 5 x ISA slots / 1 shared

ONLY $215.00 with 256K cache

ShowBOOK 4E - 486 Multimedia

- Multimedia 486 Notebook (MOTPS-AC)
- Upgradable CPU (SX/DX/DX2/DX4-100)
- 128Kb Cache and up to 36MB RAM
- TRUE 32-bit VESA Local Bus
- PCMCIA Type IV slot
- Built-in Audio Chip, Mic., & Speaker
- Removable HDD (340, 520, 810MB, 1.3GB)
- Two Hot Swap NiMH Batteries
- Built-in 25mm Trackball with Palm Rest
- UART 16550 serial & Bi-directional EPP/ECP
- Optional Easy Docking Station
- Optional VESA Multi-Media Docking

340MB Hdd	Mono	DS Color
486-66DX2	$1,385	$1,745
486-100DX4	$1,425	$1,785

SPECIAL of the Month: Wedge SubLite Notebook

- 486-33MHz / 25MHz,
- Weighs only 3.9 lbs, 4 Hours Battery Life
- Large Dual Scan Color Display / Mono
- 4MB RAM and 340MB hard drive installed
- Simultaneous LCD/CRT
- Trackball with Palm Rest
- Removable NiMH Battery
- External Floppy Drive and Carrying case
- Serial, Parallel, Kb and Mouse ports

$1,249 - COLOR
$899 - Mono

- Multimedia Pentium Notebook w/ CD-ROM
- Pentium 75/90/100/120/133MHz Processor
- 256KB Cache and 8MB up to 32MB RAM
- PCI Video and Enhanced IDE Controller
- PCMCIA Type III or Two Type II Slots
- Built-in Audio, Mic and Stereo Speakers
- Removable 340, 520, 810MB, 1.3GB HDD
- Built-in GlidePoint with Palm Rest
- 2MB VRAM provides 1280x1024x256 colors
- 3.5" 1.44MB FDD exchangeable for TV Tuner or Video Capture Module
- Fast 16550 Serial, EPP/ECP Parallel Port
- Built-in Joystick and MIDI/Game port
- Wireless IR Interface for remote control
- Extended battery life w/ super battery pack
- 800x600 Resolution on 11.3" Dual Scan model

340MB Hdd	DS Color	TFT Color
P5-75	$ 2,745	$ 3,095
P5-100	$ 2,945	$ 3,295
P5-133	$ Call $	$ Call $

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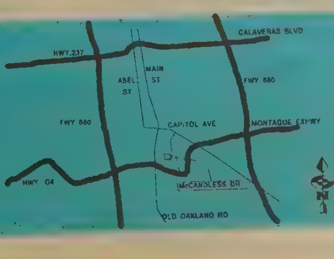

American Express, VISA & MasterCard Accepted
3 Year ON-SITE Warranty from G E Optional on every Wedge system

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15% restocking fee on all returned products
NO return after 15 days
Price and terms subject to change without notice

Selecting A Printer *continued...*

Height: 7.8"
Width: 14.4"
Depth: 8.8"
Weight: 7.1lbs.

Canon BJC-610
Suggested price: $599
Warranty: two years
Resolution: 720 x 720dpi
Print speed: 0.7ppm
Colors: color and monochrome
Compatibility: IBM PC
Emulations: IBM Proprinter X24E, Epson LQ-2550, Windows Printing System
Interfaces: parallel
Input tray capacity: 100 sheets
Paper size(s): letter, legal, A4, envelopes, transparencies, labels, card stock, high gloss and back print film, T-shirt transfers, fabric sheet
Resident fonts: 307
Noise level: 45dba
Buffer: 60K
Additional functions: includes Canon Creative CD-ROM software collection
Height: 7.2"
Width: 16.1"
Depth: 10"
Weight: 9.9lbs.

Hewlett-Packard DeskJet 660C
Suggested price: $599
Warranty: three years
Resolution: 600 x 300dpi color and RET, 600 x 600dpi monochrome
Colors: color and monochrome
Compatibility: IBM PC
Print speed: 1.5ppm color, 4ppm monochrome
Emulation: HP LaserJet (PCL 3)
Interfaces: serial, parallel, AppleTalk
Energy Star compliant: yes
Processor chip: 68000
Clock rate: 16MHz
Base RAM: 512K
Input tray capacity: 100 sheets
Paper size(s): letter, legal, executive, envelopes, transparencies, labels, card stock
Fonts included: 50 resident
Form width: 9"
Additional functions: monochrome printing at 4ppm, 600dpi resolution
Options: 199 "Printer Pal" adds fax capability
Height: 7.9"
Width: 17.2"
Depth: 16"
Weight: 11.6lbs.

Epson Stylus Color Pro
Suggested price: $649
Warranty: two years
Resolution: 720 x 720dpi
Colors: color and monochrome
Print speed: 1ppm
Compatible: IBM PC and Apple Macintosh
Emulations: Epson ESC/P 2
Energy Star compliant: yes
Interfaces supported: serial, parallel, AppleTalk
Input tray capacity: 100 sheets
Output tray capacity: 30 sheets
Paper size(s): letter, legal, A4, B5, envelopes, transparencies
Print engine life: 75,000 pages
Number of fonts included: 9 resident
Automatic interface switching: yes
Simultaneous active ports: yes
Noise level: 45dba
Buffer: 56K
Max. form width: 9"
Height: 7.8"
Width: 17"
Depth: 9.8"
Weight: 11lbs.

Hewlett-Packard DeskJet 856C
Suggested price: $658
Warranty: one year
Colors: color and monochrome
Print speed: 2ppm color, 7ppm monochrome
Resolution: 300dpi color plus RET, 600dpi black
Printer emulation: HP LaserJet (PCL 3), Apple QuickDraw
Energy Star compliant: yes
Interfaces supported: serial, parallel, AppleTalk
Compatible with: IBM PC, Apple Macintosh
Base RAM: 1MB
Input tray capacity: 150 sheets
Output tray capacity: 50 sheets
Paper size(s): letter, legal, executive, A4, envelopes, transparencies, labels, card stock
Duty cycle: 1000 (monochrome), 160 (color) pages per month
Print engine life: 60,000 pages
Noise level: 52dba
Additional functions: monochrome printing at 7ppm, 600dpi color printing at 2ppm
Height: 8.9"
Width: 17.5"
Depth: 15.6"
Weight: 14.3lbs.

Multifunction Printers

Brother Multifunction Center 4500 ML
Suggested price: $2000
Warranty: one year
Colors: color and monochrome
Print speed: 6ppm
Resolution: 300dpi
Printer emulation: IBM Proprinter XL, HP LaserJet (PCL 4), Epson FX 850
Automatic emulation switching: yes
Upgradable PDL: yes
Energy Star compliant: yes
Interfaces supported: serial, parallel
Compatible with: IBM PC
Base RAM: 512K
Maximum RAM: 2MB
Input tray capacity: 200 sheets
Output tray capacity: 100 sheets
Paper size(s): letter, legal, executive, A4, A5, envelopes, transparencies, labels
Toner cartridge life: 3000 pages
Fonts included: 45 resident
Optional fonts provided: diskette
Automatic interface switching: yes
Noise level: 38dba
Max. form width: 9"
Additional functions: 400dpi scanner, 203 x 392dpi copier, 9600 bps fax/modem, auto-detection of fax
Height: 11.7"
Width: 17.6"
Depth: 17.8"
Weight: 24lbs.

Lexmark Medley 4sx
Suggested price: $950
Warranty: one year
Colors: color and monochrome
Print speed: 0.4ppm color, 3ppm black
Resolution: 300 x 300dpi color with RET, 600 x 300 monochrome with RET
Printer emulation: HP DeskJet 500, 500C (PCL 3)
Energy Star compliant: yes
Interfaces supported: parallel
Base RAM: 1MB
Maximum RAM: 4MB
Input tray capacity: 150 sheets
Paper size(s): letter, legal, transparencies, labels, envelopes, card stock
Toner cartridge life: 200 (color), 1000 (monochrome) pages
Fonts included: 14 resident
Additional functions: monochrome printing at 600 x 300dpi, 14.4K bps CCITT Group 3 fax/modem, 2ppm 300dpi copier, 6ppm 300dpi grayscale TWAIN scanner
Height: 12"
Width: 17.3"
Depth: 15.4"
Weight: 17lbs.

Canon MultiPASS 1000 Document Processing System
Suggested price: $800
Colors: monochrome
Print speed: 76.7cps
Resolution: 360dpi
Printer emulation: IBM Proprinter X24E, Epson LQ510, Canon BJ200/10e
Interfaces supported: serial, parallel
Compatible with: IB PC
Input tray capacity: 200 sheets
Paper size(s): letter, legal
Toner cartridge life: 1400 pages
Additional functions: Graphics printing at 1.8ppm, 9600 bps modem, plain paper an PC fax, 200dpi scanner, 99-page laser-quality copier, full-featured on-hook dialing telephone
Height: 7"
Width: 17"
Depth: 13"
Weight: 15lbs.

Dot Matrix Printers

Panasonic KX-P1150
Suggested price: $145
Warranty: two years
Print head: 9-pin
Print speed: 240cps
Energy Star compliant: yes
Interfaces supported: parallel
Compatible with: IBM
Number of print positions: 160
Printer emulation: IBM ProPrinter III, Epson FX-850
Noise level: 55dba
Buffer: 4K
Max. form width: 12"
Height: 5.3"
Width: 17.1"
Depth: 12.4"
Weight: 10.6lbs.

Panasonic KX-P2135
Suggested price: $300
Warranty: two years
Print head: 24-pin
Print speed: 250cps
Interfaces supported: parallel
Compatible with: IBM PC

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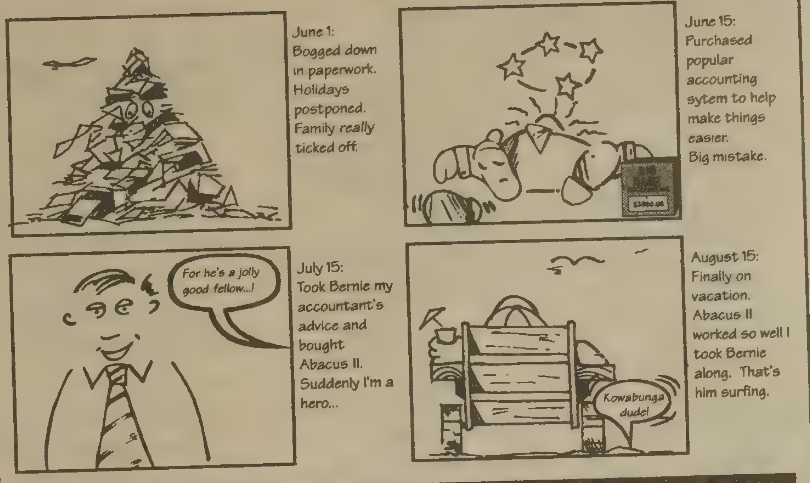
How I said goodbye to stress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Kowabunga dude!

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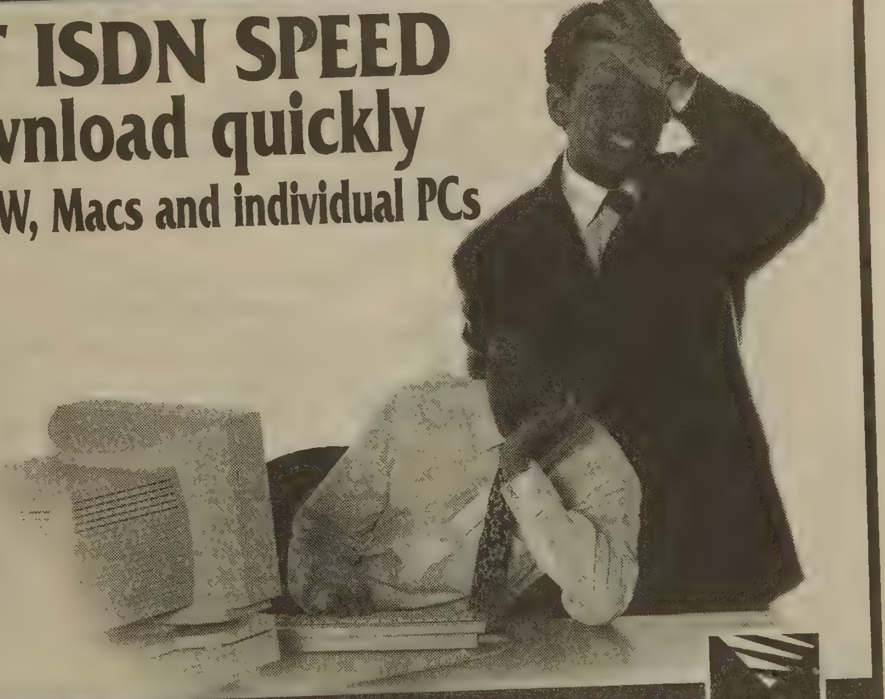

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Selecting A Printer *continued...*

Printer emulation: IBM Proprinter X24E, Epson LQ-860
Noise level: 47dba
Buffer: 14KB-32KB
Height: 5.8"
Width: 17.1"
Depth: 12.4"
Weight: 11lbs.

Directory Of Printer Manufacturers

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1 Infinite Loop
Cupertino, CA 95014
Tel: 1-800-776-2333 or (408)996-1010
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BBS: 1-800-877-8221

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Fax: (513)445-4184
URL: *http://www.attgis.com*

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Somerset, NJ 08875-6714
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BBS: (714)859-2610

Canon Computer Systems, Inc.
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Costa Mesa, CA 92626
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Tel: 1-800-423-2366 (technical support)
Fax: (714)438-3099
BBS: (714)438-3325

Citizen America Corp.
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Tel: (310)453-0614, ext. 266 (technical support)
Fax: (310)453-2814
BBS: (310)453-7564

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Tel: 703-648-0930 (direct sales)
Tel: 1-800-283-7227 (technical support)
Fax: (703)860-8084
BBS: (818)887-8167

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Maynard, MA 01754-2571
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Tel: 1-800-354-9000 (technical support)
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San Jose, CA 95134
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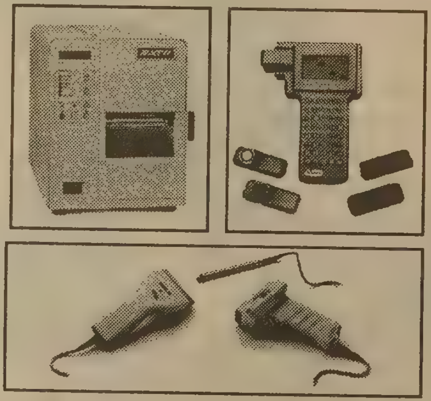

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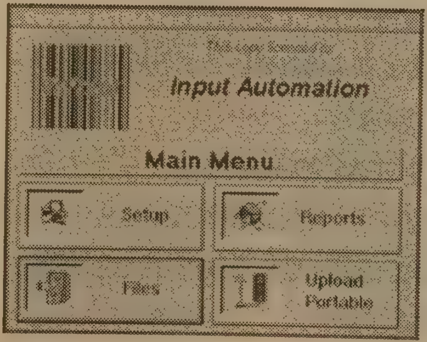

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Export-Quality System

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1.44 MB YE Data Fast FDD
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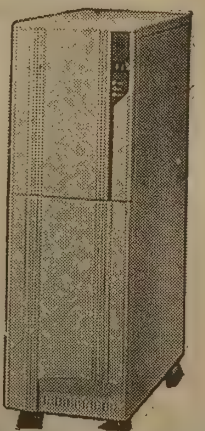

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DualPentium100 256k	PCI	$1,083					$1,866	$2,248
Intel 'Endeavor' 120 Burst	PCI	$775					$1,566	$1,948
Intel 'Zappa' 100 w/256	PCI	$619				$1,344	$1,414	$1,797
'Triton Chip' 90 w/256k	PCI	$513				$1,235	$1,306	$1,690
'Triton Chip' 75 w/256k	PCI	$422				$1,150	$1,222	
C586-100 W/256K	VLB	$344			$893	$1,054	$1,127	
A486DX4-120 w/256k	VLB	$301		$814	$851	$1,011		
A486DX4-100 w/256k	VLB	$287		$800	$837			
C486DX2-80	VLB	$240	$584	$748				

*PCI Systems include PCI IDE Cont W/Fast IO and S3C864 1MB PCI Graphic Card

*VLB Systems include VLB IDE Cont w/Fast IO and S3C805 1MB VLB Graphic Card

CPUs: A - AMD; C - Cyrix; I - IBM; i - Intel; Nx - NexGen

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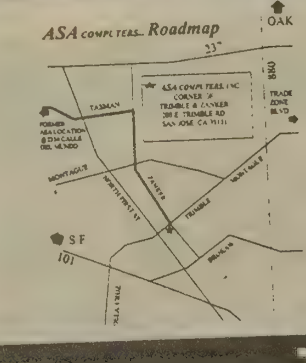

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Spider 32VLB Plus 1MB/2MB	$95/149
Spider Tarantula 64 VLB/PCI 2MB VRAM	$249
Matrox	
MGA Millennium 3D PCI 2MB/4MB WRAM	$319/449
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Hercules Dynamite Pro VLB 1MB/2MB DRAM	$169/219
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Subwoofer Speaker YST-MSW10H	$149
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Diamond 500 Multimedia Kit	$209
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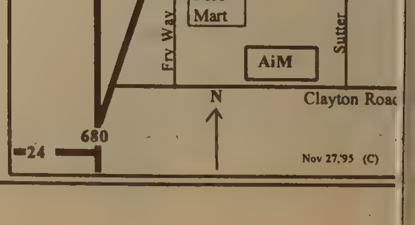

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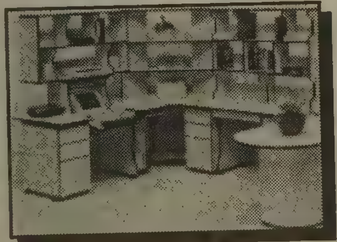

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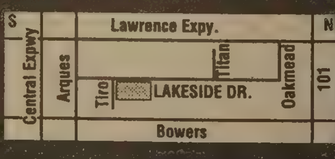

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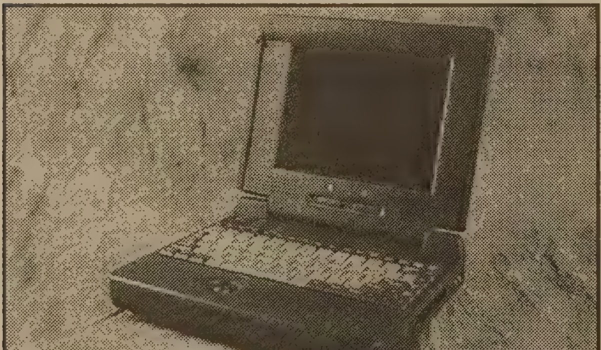

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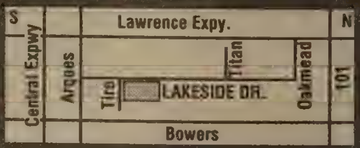

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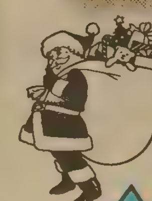

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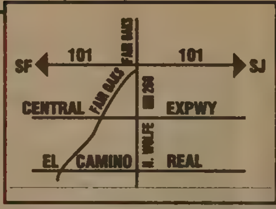

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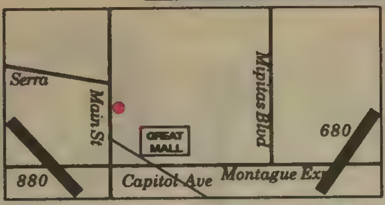

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Intel Triton Zappa P5-90/256K PCI	$449
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486DX4-100/256K PCI w/IDE PCI(AMD)	$188
486DX4-120/256K VLB (AMD)	$183
486DX4-100/256K VLB (AMD)	$170
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486DX4-100(AMD)	$800
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Tarantula VLB/ PCI w/ 1MB/2MB VR(S3-964)	140/200
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32VLB Plus w/1MB/2MB	87/133
64 VLB/PCI w/1MB/2MB/4MB DR(Cirrus)	80/125/205
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MGA Millenium PCI w/2MB/4MB VRAM	315/455
❖ATI	
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Fax Modem 14.4 voice/28,800 V.34	60/120
❖US ROBOTICS	
Sportster Fax/Modem 14,400 Int/Ext	94/125
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❖NEC	
XP15/XE15/XV15	580/570/470
XE17/XP17/XV17	999/1020/746
XE21 / XP 21	1720/2090
❖MAG	
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Princeton Ultra 15/Ultra 17	345/565
❖SONY	
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CM-1587MV / CM-2110	370/1480
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♦MITSUMI 4XI CD ROM IDE	130
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♦TOSHIBA CD ROM 5302 4XI IDE	146
♦TOSHIBA CD ROM 5301B/3701 6xi SCSI	205/320
♦PANASONIC 4XI IDE/SCSI CD ROM	129/165
♦NEC 6xi SCSI OEM	320
♦ 4xi Multimedia Kit: Double-speed CD-ROM + Diamond 16 sound card Microsoft *Home* software + Speakers	230
♦ 4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 Microsoft *Home* software + Speakers	250
♦ 6xi Multimedia Kit: Teac 6xi EIDE + Soundblaster 16 Speakers + Microsoft Family CD Bundle	360
♦ SCSI 4xi Multimedia Kit: Toshiba 5301B 4xi + Soundblaster 16 SCSI-II Amplified Speakers + Microphone	340

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- Expandable to 2MB
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- non-interlaced, energy saver
* 540 MB Hard Drive
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* 101 Enhanced Keyboard
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* Free CPU Fan

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Intel P5-133MHZ $1799

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850mb/12ms (EIDE)	190
1.2 GB/15ms (EIDE)	258
1.0GB/10ms (SCSI)	290
❖MAXTOR	
420mb / 14ms (IDE)	145
540mb/14ms (IDE)	173
850 mb/ 10ms (EIDE)	190
1.2 GB / 12 ms (EIDE)	260
1.6 GB/12ms (EIDE)	320
❖QUANTUM	
540mb/14ms (SCSI)	173
1.0GB/10ms(SCSI)	275
2.1 GB/8ms (SCSI-2)	630
❖WESTERN DIGITAL	
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1.0 GB/ 11ms (EIDE)	230
1.2GB/ 10ms(EIDE)	275
1.6 GB/ 10ms (EIDE)	360

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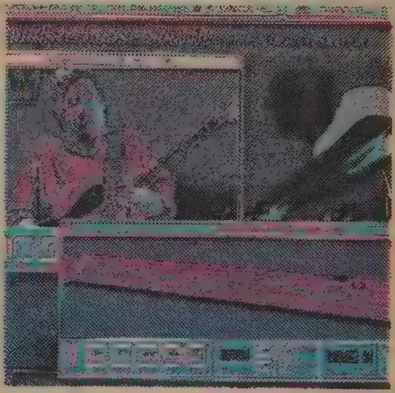
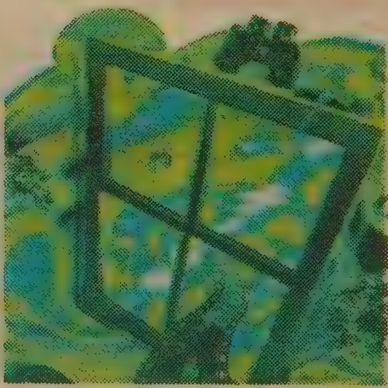
♦Microsoft mouse serial/bus	26/53
♦Logitech Mouseman serial/Bus (4000dpi)	27/48
❖COLORADO	
DJ-35C 350MB/DJ-501 4GB	128/225
T-1000 800 MB	158
Trakker 250MB/Trakker 700MB	240/320
♦Baby AT/Mini Tower case w/230W PS	40
♦Medium Tower case w/230W PS	60
♦Full Tower case w/250W PS	80
♦ Floppy Drive 1.2/1.44/DUAL	40/36/95

1995 Holiday Product Reviews





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Product Updates

20/20 Software introduced **PC-Install v4**, the latest version of its installation software for DOS and Windows 3.x, and a **32-bit version for Windows 95 and NT**. 20/20 Software, Inc., 8196 SW Hall Blvd., Suite 200, Beaverton, OR 97008. 1-800-735-2020.

ACI shipped its new **4th Dimension 3.5** relational database for both Windows and Macintosh. The new version allows end-users and developers to enjoy seamless applications integration across Mac and Windows platforms. Suggested price is $895. ACI US, Inc., 20883 Stevens Creek Blvd., Cupertino, CA 95014. (408)252-4444.

Agfa released **AgfaType Collection CD-ROM v6** for the Macintosh, which contains over thirty-six hundred PostScript Type 1 typefaces. Agfa Division, Bayer Corp., Typographic Systems Division, 90 Industrial Way, MS 90-2-4C, Wilmington, MA 01887-1069. 1-800-424-TYPE.

Akimbo Systems released **FullWrite 2**, the new version of its intuitive word processor for the Macintosh. List price is $295, upgrades are $99, competitive upgrades from any other Mac word processor are $120. Akimbo Systems, 11 Rose St., Somerville, MA 02143. 1-800-988-9849.

Ares Software shipped **FontMinder 3.0**. The new version of its font management utility for Windows 95 and 3.1 includes a new tabbed interface and other improvements. The suggested retail price is $79.95; current users can upgrade for $24.95. Ares Software Corp., 565 Pilgrim Dr., Suite A, Foster City, CA 94404. (415)578-9090.

Elektroson released its new 32-bit CD-R software, **GEAR 3.2 for Windows 95 and Windows NT**. Suggested pricing is $100 for the standard version and $499 for the Multimedia/Multiformat version. Elektroson USA, 10 Presidential Blvd., Suite 125, Bala Cynwyd, PA 19004. (610)617-0850.

Iprax Corp. announced **Release 3.1 of CourseWorks**, its multimedia training software that lets managers rapidly and easily convert conventional training materials into interactive training courses. It is priced at $695. Iprax Corp., One Forbes Rd., Lexington, MA 02173. 1-800-464-7729.

Jandel Scientific Software has shipped **SigmaScan v2.0** (formerly SigmaScan/Image) and **SigmaScan Pro v2.0** (formerly Mocha) for Windows. These new Windows 95-compatible versions of its imaging software contain more features that make it easy and affordable to complete image measurement and analysis on a PC. SigmaScan is $495, SigmaScan Pro is $995. Jandel Scientific Software, 2591 Kerner Blvd., San Rafael, CA 94901. 1-800-452-6335, (415)453-6700.

Ligature Software announced a **competitive upgrade program** for users of OCR software. Users of any OCR product can upgrade to Ligature's CharacterEyes Pro for Windows for only $149 with proof of purchase of their original software. Ligature Inc., 25 Burlington Mall Rd., Suite 300, Burlington, MA 01803. (617)238-6734.

MicroHelp shipped **UnInstaller 3 for Networks**, extending new application management functions to LAN managers. The suggested retail price is $299 for a server license. MicroHelp, Inc., 4211 J.V.L. Industrial Park Dr. NE, Marietta, GA 30066. 1-800-777-3322.

Niles & Associates has released **EndNote Plus 2.0.1**, a new version of its bibliographic software that can scan Microsoft Word 7.0 documents to generate formatted bibliographies. Suggested retail price is $299. Niles & Associates, Inc., 800 Jones St., Berkeley, CA 94710. (510)559-8592.

Novell released **WordPerfect 6.1 for Windows SGML Edition**, an all-in-one SGML authoring solution integrated with its popular word processor. Suggested price is $595. Novell, Inc., 122 East 1700 South, Provo, UT 84606. 1-800-453-1267, (801)429-7000.

Security Dynamics announced the **ACE/Server v2.0**, providing a true scalable, enterprise security solution. Pricing begins at $2450. Security Dynamics Technologies, Inc., One Alewife Center, Cambridge, MA 02140-2312. (617)547-7820.

SQA, Inc. announced that **SQA Suite for Visual Basic now supports Microsoft Visual Basic 4.0**. The TeamTest Edition is $2995 per user license; call SQA for the Client/Server Edition pricing. SQA, Inc., 10 State St., Woburn, MA 01801. (617)932-0110.

Time Line Solutions released **Time Line 6.5**, a faster and easier-to-use version of Time Line for Windows, its project management system. The suggested price of $699 includes add-ons of Guide Line and Crystal Reports v4. Time Line Solutions Corp., 7200 Redwood Blvd., Suite 300, Novato, CA 94945. 1-800-222-TLSC.

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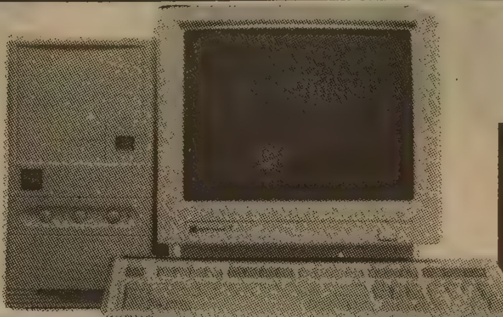

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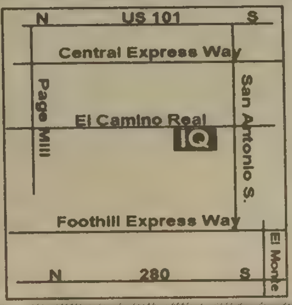

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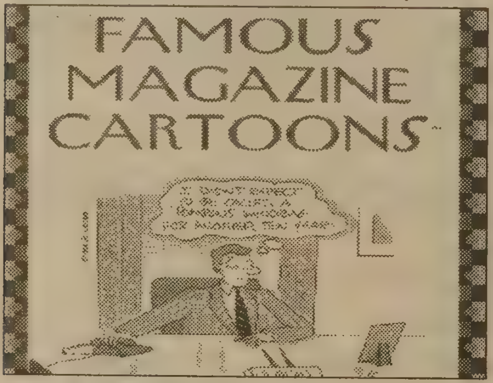
Product Reviews

CD-ROM Reviews

ClipArt Packages

Creative Fuel ($69.95)
Famous Magazine Cartoons ($69.95)
Art Parts ($59.95)
Cartoons Fun 5 Pak ($29.95)
Published By: T/Maker
Reviewed By: Matthew Leeds

T/Maker has long been known as a source of excellent clip art and fonts. They have recently released new products in their ClickArt series on CD-ROM that support Macintosh, DOS, and Windows platforms. Each package includes an on-screen image browser (Kudo Image), an image format converter (Macintosh—EPS, AI 88, PICT, PrintShop Deluxe; Windows—EPS, AI 88, CGM, WMF, PCX, TIF, PrintShop Deluxe), and a printed index to the image libraries. With the growth of the Internet two changes to these products would be welcomed: adding support to the format converter for GIF and amending the licence agreement to allow use of the graphics in Web pages.



CLICKART
Cartoons
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Cartoons Fun 5 Pak contains over five hundred cartoons in black and white and color. The cartoons are grouped in over thirty categories and are keyword indexed for quick retrieval. Ten cartoon-style fonts are also included for creating headlines and captions. The cartoons are by Phil Frank and Karl Edwards, nationally recognized cartoonists.

Famous Magazine Cartoons contains five hundred cartoons by nine world famous cartoonists including Al Ross, Charles Barsotti, and Sidney Harris.

Art Parts contains more than three hundred images (black and white and color) in such categories as animals, borders and frames, business, office, and sports and leisure. The art is an unusual style, not what you would expect to find in a clip art collection.

Creative Fuel is an amazing collection of over three thousand images, twenty-five hundred fonts, ten handwriting fonts, previews of the Famous Magazine Cartoons and the Art Parts collection, and a free copy of *Technique Magazine*.

Famous Magazine Cartoons, Art Parts, and Cartoons Fun 5 Pak are also available in lower-cost floppy versions with fewer images. The CD-ROM versions are a better value since they contain far more images and the browser and conversion utilities. (T/Maker Corp., 1390 Villa St., Mountain View, CA 94041. 415/962-0195)

PhoneDisc Power Finder

Published By: Digital Directory Assistance
For: MS-DOS, Windows, and Macintosh
Price: $159
Reviewed By: Woody Liswood

Most of the various CD-ROM products that claim to contain the current phone numbers of everyone in the United States have been a disappointment. For example, one disk set listed me at a house I had not lived in for over four years. However, the latest edition of PhoneDisc has changed my opinion about this type of software product.

PhoneDisc Power Finder is a collection of five CD-ROMs containing everybody I looked for in each part of the country. I also checked business listings. They

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Diamond Stealth SE with 1MB PCI	$79
Diamond Stealth 64 Video 2MB/4MB VRAM	**$238/383**
Matrox Impression Plus/2MB VRAM PCI (upgradable)	$298
Matrox Millennium, 1600x1280, 2MB/4MB WRAM	**$298/498**
#9 GXE64 Pro, 2MB VRAM	$318
Trident 9440 PCI or VESA LB w/1MB	$64

BRAND NAME CONTROLLERS

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Adaptec 2822 SCSI Controller VLB	$120
Adaptec 1542 SCSI Controller ISA	$156
PCI Wide SCSI Controller, NCR 825	$99
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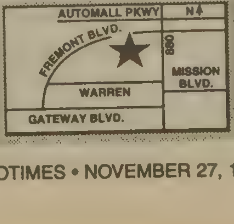

appeared to be current and well edited.

It comes with MS-DOS, Macintosh, and Windows software, and could not be easier to install or use. The interface is simplicity itself. A window fills the bottom half of the screen where it displays last name, first name, address, and telephone number.

The entries in the database are indexed by name, business name, address, and telephone number. Businesses are indexed by SIC code rather than by business name. While I might want to find a business by its code number, I probably, more often, want to find it by the name of the business.

To find a specific address, you select the city then the state. Next, you enter the street without the street number. Lastly, you must scroll through the street numbers to the one you want. This may sound odd, but it works smoothly.

After selecting a listing, you can export it, dial it, or even print it. As you select an entry, a smaller window shows you a label with the same information. Exporting from the Windows software places the information in a comma-delimited file.

I could not find any reason to call technical support. Everything worked and installed with no problems. However, in addition to an 800 number, support is available through CompuServe.

This is one of those products you will find useful for marketing, or finding old friends or relatives you have fallen out of contact with. (Digital Directory Assistance, Inc., 6931 Arlington Rd., Suite 405, Bethesda, MD 20814-5231. 1-800-284-8353)

Spider Man: The Cartoon Maker CD-ROM

Published By: Knowledge Adventure
For: Windows
List Price: $29.95
Reviewed By: Woody Liswood

Have you ever thought, when looking at your favorite comic book: I can do that! With Spider Man: The Cartoon Maker you can now take your creative initiative to new heights and create your own multimedia, somewhat-animated Spider Man cartoons.

The CD provides a library of images, animation effects, and music-to tell your story. And, since you have always wanted to be a narrator, with a microphone and sound card, you can add narration to your stories.

Knowledge Adventure suggests you have about 4MB of hard disk space for working with this CD. Each minute of cartoon uses about 600K.

The documentation points out that "Children will develop their artistic skills, speech, improvisation, sense of drama, and most importantly, will be empowered to tell their own stories." This program could easily be a family affair—you could have someone who likes to draw create the background for the cartoons, have someone else do the narration, and maybe spend a few hours together creating the plot.

I found that it was easier to create an individual scene or group of scenes and string them together rather than try to create an entire long movie. One reason for this is that Spider Man recording software assumes that you will be talking for thirty seconds and times everything else to match. Thus, if you plan the scenes in thirty-second segments the process wil work much more smoothly.

If you are particularly pleased with one of your scenes, you can take a snapshot of your screen at any time and save it as a .BMP file. Conversely, if you want to add your favorite .BMP file to your cartoon, you can import 256-color or black-and-white images.

The documentation is minimal, however, there is Audio Help. When you need to know something, click on the "?" button and listen.

This is a really interesting CD-ROM. Not what I expected when I saw the package, but it did grow on me. I am looking forward to the next of this type of CD-ROM from Knowledge Adventure. (Knowledge Adventure, 4502 Dyer St., La Crescenta, CA 91214. 818/542-4200)

Nickelodeon Director's Lab

Published By: Viacom New Media
For: MS-DOS
List Price: $59.95
Reviewed By: Pamela Mason

Director's Lab is a "multimedia creativity kit for kids" that turns their computer into a complete production studio and puts them in the director's chair.

Kids can use the same tools that are found in a real-world studio to create their own animations and multimedia productions for school projects or just for fun. They traverse through different "rooms," such as the Video Editing Suite, the Graphics Studio, the Music Studio, and the Sound Effects Studio. I recently toured the Nickelodeon Studios production facility in Orlando, Florida, and can say that the rooms in Director's Lab are actually quite similar to the real rooms where Nickelodeon puts together its programming. The walls there, as in this package, really *do* have cartoons and characters painted all over them!

The interface carries on the look and feel of the Nickelodeon channel, complete with a HELP blob that invokes Clarissa (Melissa Joan Hart), star of Nickelodeon's *Clarissa Explains It All*, on a video monitor to help and provide instruction. You can sit at the video-editing console and step through one of hundreds of video clips from among the huge Nickelodeon library archives. You can embellish these clips by adding the familiar Nick paint splats, Nick Jr. images, and cartoons; or you (er, or your kids) can create a masterpiece from scratch. The resulting multimedia videos

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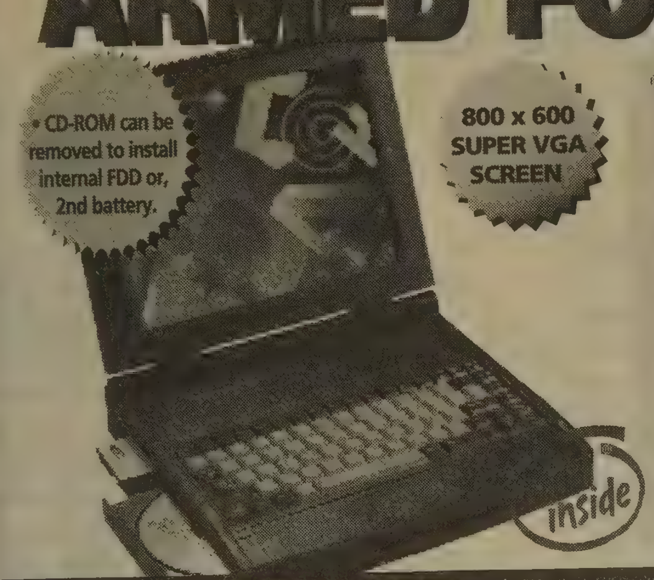
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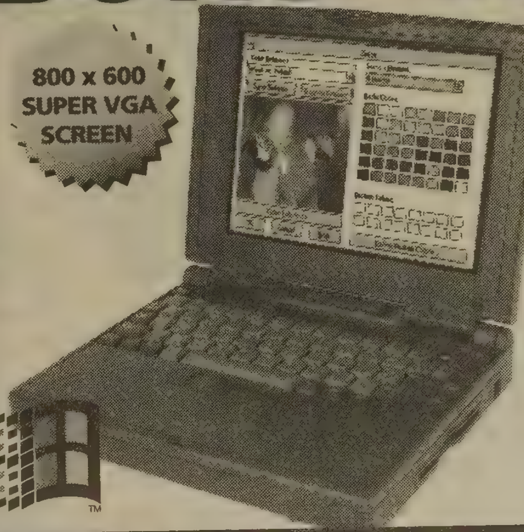

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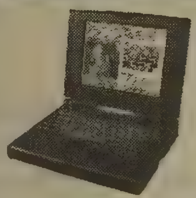

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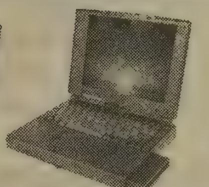

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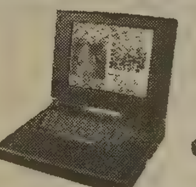

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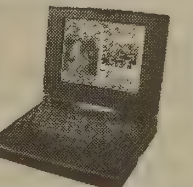

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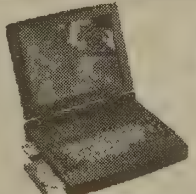

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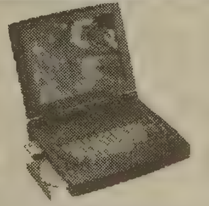

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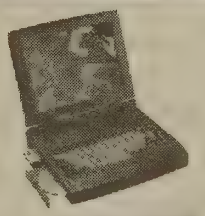

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In addition to the exceptional graphics, this package excels in its documentation style and installation process. The manual is a fold-over easel, like an artist's, that provides very thorough instructions. During installation you are told that it "will attempt to notify you of any problems you may have running Nickelodeon Director's Lab and will try to offer a solution to the problem." It actually does. Those who write software for adults could learn a lot from how Director's Lab addresses the most common and often frustrating MS-DOS installation problems.

Director's Lab has one of the most intuitive and creatively designed interfaces I have ever encountered, and yet it has the power to create sophisticated work. Buy this program for your kids. If you are an adult looking for a nonthreatening, whimsical way to learn about multimedia—buy it for yourself! (Viacom, 1-800-469-2539)

Moving Textures 100

Published By: Precision Computer Graphics

List Price: $294 JPEG format; $229 IEF formats (fewer series)

Reviewed By: Douglas J. Nakakihara

Even the best computer-generated textures are no match for Mother Nature. The real thing seems to always look better. Fortunately, there's Precision Computer Graphics' Moving Textures 100 CD-ROM, a collection of royalty-free stock footage designed specifically for computer animations.

This CD-ROM contains two categories of images: true maps and effects maps. True maps are full-color images of clouds, fire, the ocean, smoke, and steam. These are meant to be mapped directly onto a 3-D object's surface or used as backdrops. Effects maps offer various liquid movements like ocean surf, boiling and flowing water, waves, ripples, etc. These grayscale images are geared toward things like diffusion or bump mapping. Of course, there is no reason you could not use effects maps as true maps and vice versa.

The images are as beautiful as they are interesting. Most of the maps come with nine hundred sequenced images, although some are shorter. This should provide enough time for most commercial applications. It's a good thing, too, since these real-world images don't loop.

The JPEG disc is ISO 9660 and can be used across platforms. However, to use it with an Amiga you will probably need Pegger (Express-Way Software), which can automatically fix the PC naming convention (NAME0001.JPG) that generally prevents most Amiga programs from recognizing the files as a sequence. For 3D Studio users, image file lists are provided. The package even includes a nice reference videotape. Moving Textures 100 will take your animations to a new level of professionalism. (Precision Computer Graphics, 634 N. Glenoaks Blvd., Suite 367, Burbank, CA 91502-1024. 818/842-6542)

Corel Gallery 2

Published By: Corel Corp.

List Price: $99

Reviewed By: Matthew Leeds

Clip art is becoming a commodity item. You can get more images than you can use in a lifetime on a single CD for less than the cost of commissioning a single piece of original art. If you buy from name publishers, you get a quality product, and the main value added is the quality of the indexing and retrieval software. Corel's Gallery 2 contains fifteen thousand pieces of clip art, five hundred Type 1 fonts, seventy-five sounds, ten QuickTime movies, QuickTime 2.0, MasterJuggler (for managing fonts), and Adobe Type Manager. This is a high-value package.

Corel also includes both 68K and PPC versions of its Gallery program, which provides the index and retrieval functions. Galley will also convert the provided clip art from Corel's own format to a variety of formats including MacPaint, Photoshop 2.0 and 2.5, PICT, and TIFF. It also supports other formats that may be of interest to Windows users. Gallery can also be used to index existing art, and in addition, read JPEG and other formats. Gallery also provides batch conversion and printing functions, supports drag and drop, and has slide show feature. All of the provided cli art is also key word indexed for easie browsing.

Corel also provides a book with printe copies of every font and art piece Hardcopy documentation for Maste Juggler is also provided, but not for ATM. was impressed by the depth and quality o the art included in this package. (Core Corp., 1600 Carling Ave., Ottawa, ONT K1Z 8R7, Canada. 613/728-0826)

PC Software Reviews

KPT Convolver Windows/Windows NT

(16- and 32-bit versions packaged together)

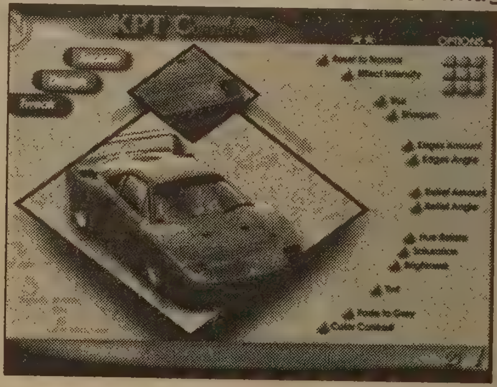
Published By: HSC Software

List Price: $199

Reviewed By: Pamela Mason

KPT Convolver is a new plug-in production filter for digital design. Plugging in to any image processing program that fully supports the Adobe Plug-In architecture, KPT Convolver allows you to explore and design filter effects derived from their custom "convolution kernels" technology.

Convolver can be used correctively or creatively. You can correct, touch up, enhance, sharpen, and color correct an image or creatively enhance it, for example turning clouds into marble. Convolver offers a very powerful toolkit for image



processing. In real time, millions of variations can be derived from the original image.

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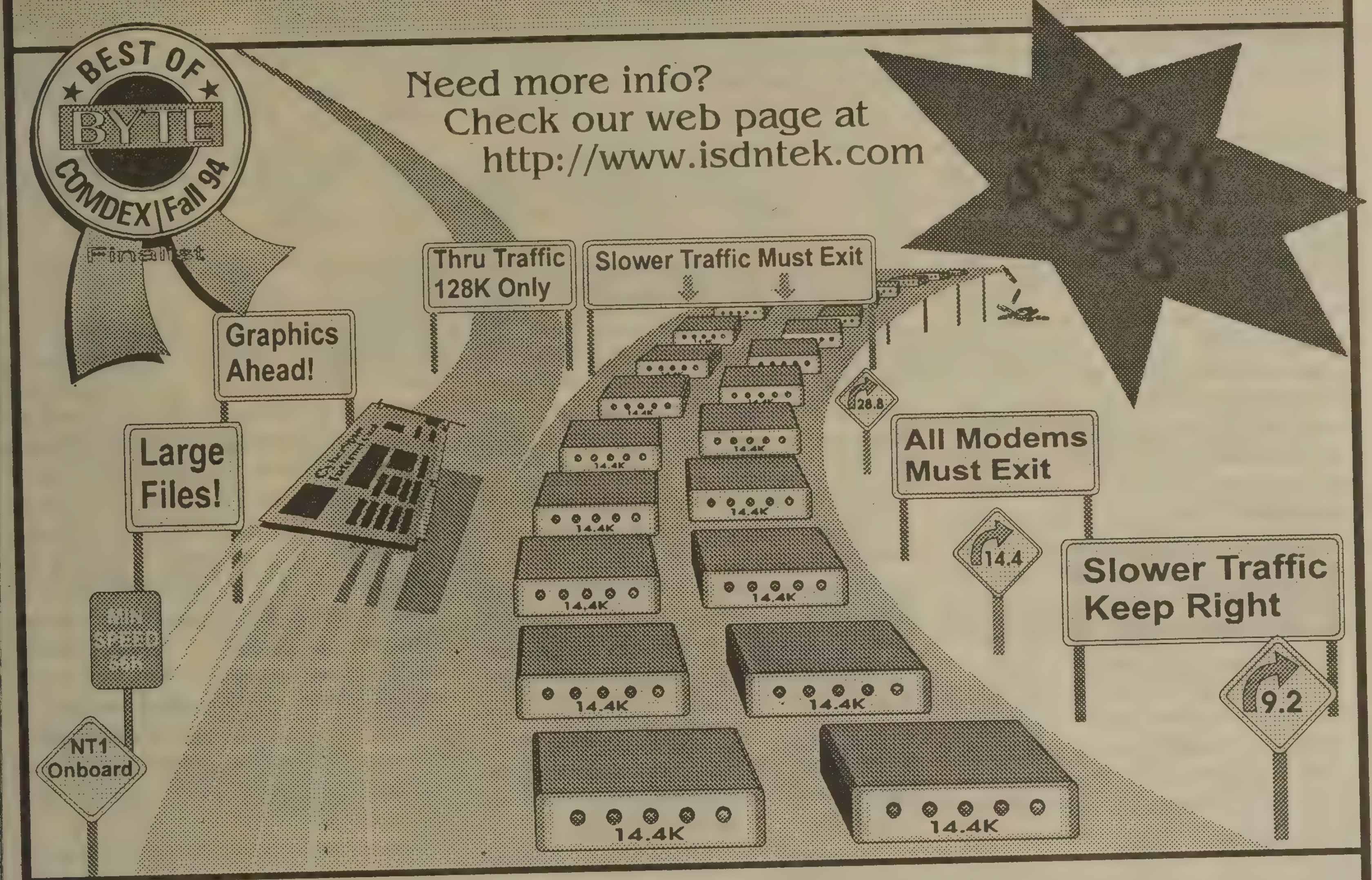
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- ✈ Internet dial-up Client (for applications like Netscape, Eudora, FTP, and USEnet)
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To use Convolver, first launch the host image-processing program such as Adobe Photoshop (Convolver comes bundled with Micrografx Picture Publisher paint and image processing program if you don't currently own one). Next, open an image of your choice and then open Convolver.

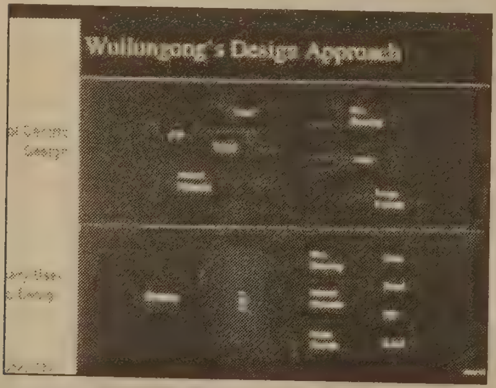
Convolver has three main modes: Explore, Design, and Tweak. Explore lets you try different effects randomly. Here the original effect is mutated, generating fifteen cousins or variations. In this mode you mutate effects or control the genetic diversity, "exploring" how different filter effects interact with an image. In Design mode you can more methodically customize a filter effect, and in Tweak mode you can apply finishing touches.

Convolver is another innovative product from HSC. Conceptually, it gives a whole new level of artistic freedom to the digital artist. From a usability standpoint, it blows away all the extraneous buttons and dialog boxes to create a lean, intuitive work environment. If you work with images, Convolver is a must-have tool for your image-processing arsenal. (HSC Software Corp., now MetaTools Inc., 6303 Carpenteria Ave., Carpenteria, CA 93013. 805/566-6274)

Emissary

Published By: The Wollongong Group
List Price: $149
Reviewed By: Woody Liswood

Until I discovered Emissary, the software I had for accessing the Internet was really just a collection of programs, each for a specific Internet task, rather than offering a single interface. Running under Windows and Windows 95, Emissary provides a single interface to everything I will do on the Internet—from Web surfing, participating in newsgroups, up- and downloading files, sending and receiving mail, and even creating Web pages.



Under Windows 95, Emissary uses the Windows 95 TCP/IP stack. This "stack" is the software that connects your computer to the Internet. For working under Windows 3.x, Emissary provides its own TCP/IP stack.

There are two reasons I find Emissary to be the best of the Internet software currently available.

First, as I mentioned, Emissary works from a single interface. Emissary displays a vertical window that looks like the Windows File Manager with different icons in the tree structure. Want to log onto the World Wide Web? Click on the Web icon. Want to check mail? Click on the mail icon. The same is true for news, files, and telnet—just click on the appropriate icon.

The second reason is Emissary's easily understood and functional drag-and-drop structure. Here you can really appreciate what a graphical interface is all about and how it really should work. Everything is an object which you can place wherever you want to do whatever you want.

An interesting and useful feature is the drag-and-drop tray. It works like the Windows clipboard, only it can hold multiple objects until you decide what you want to do with them. For example, while exploring on the Web, I can grab a home page address from the tree structure and drop it into the tray. I can add additional home pages or documents or pictures, etc. as I surf the net. Later, I can call up the mail software, create a message, drag the various objects into the letter, and send them to a friend.

Emissary has made my Web surfing as easy as working with the File Manager. Give it a try yourself. (The Wollongong Group, Inc., 1129 San Antonio Rd., Palo Alto, CA 94303. 415/962-7100, 1-800-872-8649)

Amiga Software

Texture Gallery

Published By: Amiga Library Services
List Price: $44.95
Reviewed By: Douglas J. Nakakihara

If a picture's worth a thousand words, then we'd have to fill the magazine to cover Texture Gallery's one thousand PD images. The two-disc CD-ROM was made with the LightWave 3D (NewTek) user in mind for surfacing 3-D objects; however, anyone needing texture graphics would find it useful. Each image comes in IFF, Targa, TIFF, PICT, JPEG, and SGI formats.

Many categories of images are provided including bricks, cloth, carpet, canvas, granite, grass, marble, metal, rock, stone, stucco, tile, water, and wood. Most of the images are very detailed and high quality. I did notice that a few images may be more applicable to backdrops than for texturing 3-D objects, however.

The collection does fall short of perfection in that most of the images cannot be seamlessly tiled. Many textures, like the bricks, are fairly tight shots and would almost certainly need to be tiled to realistically cover an object. With some of the more organic textures you might be able to get away with the old trick of reverse-pasting one edge to the opposite side to create a tileable image. And there are many images that wouldn't require tiling.

To help you pick out your image, author Michael Meshew has included thumbnail index pictures. This has become somewhat of a trademark with Meshew's products and something I greatly appreciate. Texture Gallery should be on any 3-D animator's shopping list. (Amiga Library Services, 610 N. Alma School Rd., Suite 18, Chandler, AZ 85224-3687. 1-800-804-0833)

FreeForm

Published By: Fori Owurowa
List Price: $80
Reviewed By: Douglas J. Nakakihara

FreeForm is a spline-based 3-D modeling program capable of exporting LightWave

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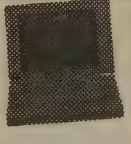

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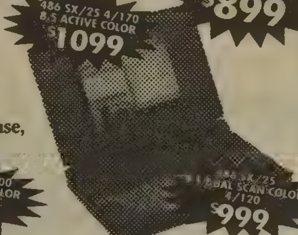

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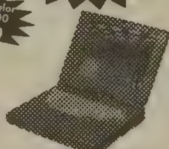

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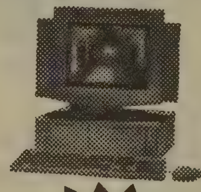

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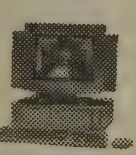

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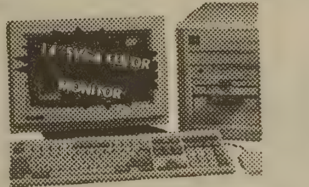

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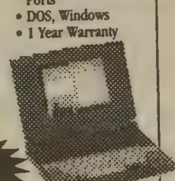

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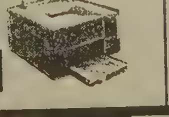

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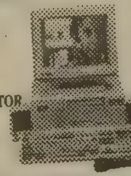

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(Videoscape), Real3D (Bspline and NURB), Imagine, and Renderman object formats. It includes many great tools to help you create smooth, organic-looking objects, often a difficult task with polygon-based modelers.

FreeForm's main strength lies in its rail-extruding function, which requires two "rails" and a cross-section. Imagine two curvy lines (i.e., rails), one above the other, that form a rough outline of a fish. Extruding a vertically elongated oval (cross section) along these rails quickly forms a smooth fish-like 3-D object. If you designate a "target," the generated cross sections will gradually "morph" into the shape of the target. You can also construct an object entirely out of cross sections, which is like creating an object using differently shaped bread slices, where the "loaf" forms the object's shape.

Hierarchical bones are featured along with real-time inverse kinematics capabilities, allowing the fluid bending of objects. You can also create an animation of an object morphing into another and interactively save "in-between" states as individual objects. Nine separate workspaces are available. Complex objects like animals and plants can be created by individually modeling their smaller subparts. Objects can be quickly rendered using various quality settings.

FreeForm has oodles of other cool modeling features. The learning curve is a bit steep (particularly if you have never seen it used), and the documentation could use some help. However, once you get the hang of it, the results can be quite remarkable. FreeForm should be part of every modeler's arsenal. (Fori Owurowa, 1873-75 Cropsey Ave., Brooklyn, NY 11214. 718/996-1842)

LIGHT-ROM 2

Published By: Amiga Library Services

List Price: $39.95

Reviewed By: Douglas J. Nakakihara

This CD-ROM is the second in a series of collections of freely distributable LightWave 3D (NewTek) objects, scenes, surface files, textures, animated maps, images, utility programs, ARexx scripts, CG, PostScript fonts, and Toaster effects. According to the documentation, there are over eight thousand files. Most of the content has been garnered from BBSes and FTP sites, so some things are shareware.

The object files are grouped into directories like anatomy, animals, aviation, botany, buildings, clocks, computer, environment, furniture, groceries, holidays, horror, household, kitchen, lamps, logos, maps, music, phones, ships, space, sports, tools, vehicles, video, and weapons, just to name a few! There are some commercial contributions from Acuris and Viewpoint. Most of the objects are beautifully detailed and not the run-of-the-mill stuff you see on some collections of this type. (I did notice some duplication of objects, and a few objects I have seen in other collections.)

You can tell that author Michael Meshew went though a lot of work to organize the files and provide informational text where appropriate. I really appreciated the inclusion of thumbnail reference pictures of all images and objects (IFF24, HAM8, Hi-res, JPEG, and Targa formats).

I can't even pick highlights because there are so many great things on this disc. The breadth of objects is phenomenal, and the price makes it a steal. The disc is ISO 9660 level 1, so it is multiplatform readable; however, I did have problems loading scene files into the pre-release LightWave for the PC. (Amiga Library Services, 610 N. Alma School Rd., Suite 18, Chandler, AZ 85224-3687. 1-800-804-0833)

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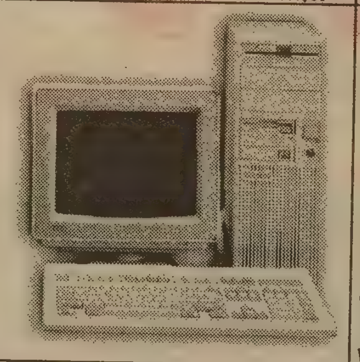

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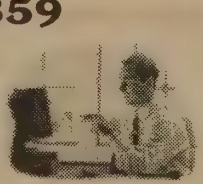

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Published By: Desktop Images
List Price: $49.95
Reviewed By: Douglas J. Nakakihara

Video tutorials are a great way to learn a computer program. Not only do you learn what this button or that menu does, but you gain insight into how to best use the application. Of course, you must have the right teacher, and for LightWave 3D (NewTek), Desktop Images has enlisted one of the best: Ron Thornton. Thornton is the mastermind behind the fantastic 3-D effects in *Babylon 5*.

For two hours, you are given a front-row seat looking over Thornton's shoulder. They basically turn on the camera and just let him work his magic. He personally takes you step by step though modeling an intricate spaceship. His melodic British accent and unassuming style captivated me. Throughout the tutorial, there was always an expressed or implied logic to what he did, which really helps to retain the information.

Thornton uses a nice mix of shortcut keystrokes and menu selections. He really opens up his bag of tricks for this video and doesn't appear to hold anything back. The pace of the tutorial is about right, but your VCR will get a real workout from pausing and rewinding. LightWave "new-bees" may have some problems because everything is not always explained with crystal clarity. You'll want to keep the LightWave manual handy.

Generally, I get extremely bored with

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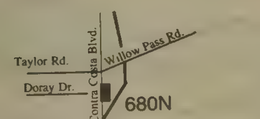

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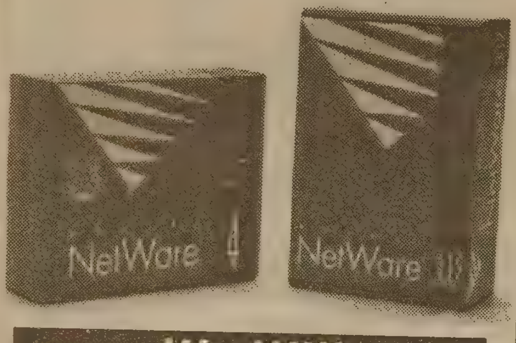

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video tutorials, but this gem is an exception. I got a tremendous amount of information out of this tape. Needless to say, this is a must-have for any LightWave modeler. There is also a second tape that covers surfacing the spacefighter object. (Desktop Images, RAVE VIDEO, P.O. Box 10908, Burbank, CA 91505. 1-800-377-1039)

The Creative Magic Of Ron Thornton: Spacecraft Surfacing Techniques

Published By: Desktop Images
List Price: $49.95
Reviewed By: Douglas J. Nakakihara

This video tape is basically "part 2" of Ron Thornton's tutorial on how to build a spaceship using LightWave 3D (NewTek). (Thornton is the main person behind Foundation Imaging, the company that does the CGI for the TV show *Babylon 5.*) This installment concentrates on how to surface the spaceship object modeled in the first tape, *Spacecraft Model Design.*

Without missing a beat, Thornton continues his methodical and logical teaching formula right into this final leg of spaceship construction. He offers a tremendous amount of insight into how to make your objects look real. Most of the tape is spent on creating the necessary image maps with a smaller—but adequate—amount allocated to actual LightWave surfacing.

One word of caution if you are an Amiga-only LightWave user: Thornton uses Photoshop exclusively, which is not available on the Amiga. However, I was able to mimic essentially everything using ImageFX from Nova Design. Even if you don't have either of these applications, you should still be able to recreate the basic results using just another paint program. It just may take you a bit longer.

The tempo of this tape is a bit faster than the first, and Thornton races through a great deal of material. A lot of repetitive stuff is skipped. In the end, you will be amazed at just how easy it all is. Bot tapes are a must-have for any LightWav animator. (Desktop Images, RAVE VIDEO P.O. Box 10908, Burbank, CA 91505. 1-800-377-1039)

Pyrotechniques: Creating Explosive Effects With LightWave 3D

Published By: Desktop Images
List Price: $49.95
Reviewed By: Douglas J. Nakakihara

In the world of 3-D animation, being able to convincingly blow up objects is pretty much a requirement, particularly for outer space shots. In Desktop Images' *Pyrotechniques*, Brad Peebler, NewTek's LightWave 3D Product Manager, takes you through a step-by-step video tutorial on this very subject. Besides explosions, he also covers how to make a smoke trail and a flame exhaust for a missile.

If you've watched sci-fi TV shows like *seaQuest* and *Babylon 5*, a lot of the effects will seem familiar. But, you will probably be surprised at just how simple the basic techniques are. When appropriate, Peebler shares the logic behind things, which really helps you retain the information and will encourage further experimentation. Throughout the tape, he offers generous helpings of shortcuts that will significantly enhance your overall LightWave skills.

Peebler uses PC LightWave, so Amiga users will want version 4.0 to follow all of the instructions. However, most of the techniques are still very useful with prior versions of LightWave.

The pace of the tape is swift and covers a lot of ground. Except for a short lesson on mapping an explosion image sequence onto a polygon, all of the techniques presented use the tools built right into LightWave. You don't need to touch a paint program to do an image map for this or a texture map for that. I've been very impressed with Desktop Images'

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Graphics Win Turbo 64 2 MB	269
Graphics Win Turbo 64 4 MB	399
Graphic Xpression 1 MB	175
Graphic Xpression 2 MB	205
Graphic Pro Turbo 2 MB	319
Graphic Pro Turbo 4 MB	449
DIAMOND	
Stealth 64 PCI/VLB 1 MB DRAM	108
Stealth 64 PCI/VLB 2 MB DRAM	148
Stealth 64 PCI/VLB 2 MB VRAM	248
Stealth 64 PCI/VLB 4 MB VRAM	382
ORCHID	
Kelvin 64 PCI/VLB w/1 MB	96
Kelvin 64 PCI/VLB w/2 MB	138

MONITORS

9" Mono VGA	$95
14" 1024 x 768 .28 NI	205
EXVIEW	
15" 1280x1024 Digital .28	299
17" 1280x1024 Digital .28	552
17" 1600x1280 Digital .26	655
20" 1600x1280 Digital .28	1199
VIEWSONIC	
15" ES15 1024x768 .28 NI	362
17" GS 17 1280x1024 .27 NI	725
20 G20 1600x1280 .28 NI	1242
21 PS 21 1600x1280 .25 NI	1580

MODEMS

14.4 Zoltrix Fax/Modem Int.	$42
28.8 Zoltrix Fax/Modem Int.	119
US Robotics 14.4 Int.	79
US Robotics 28.8 Int.	198

DRIVES

Sony 1.44 floppy Drive	$25
Mitsumi 1.2/1.44	36/26
Teac 1.2/1.44	38/28
420 MB/540 MB IDE	134/149
850 MB/1.2 GB IDE	179/239

MISCELLANEOUS

VLB Controller w/I/O	$15
PCI Controller w/I/O	29
101 Mitsumi Keyboard	11
101 Keytronic keyboard	22
NE-2000 16 Bit BNC	20
NE-2000 10BaseT	20
NE-2000 Combo	21
Logitech OEM Mouse	19
Microsoft Mouse	21
3 Button Mouse	6
Mouse Pad	1
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CPU Fan (Pentium®)	8
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Hard Drive Cable	3
Floppy Kit	3

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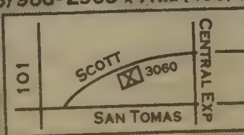

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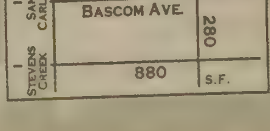
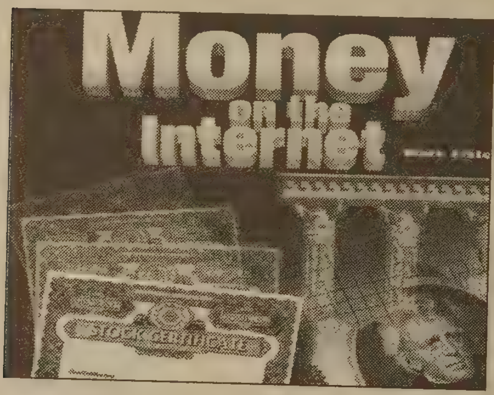


LightWave offerings, and this tape was no exception. Highly recommended for all LightWave animators. (Desktop Images, RAVE Video, P.O. Box 10908, Burbank, CA 91505. 818/841-8980)

Books

A Pocket Tour Of Money On The Internet

Author: Mark Fister
Published By: SYBEX
List Price: $12.99
Reviewed By: David A. Simon, CPA



A Pocket Tour of Money on the Internet tells you where to go in cyberspace for financial services and research, be it securities analysis, online trading, news, or portfolio management.

The book is both shopper's guide and consumer's report. Unlike the *TV Guide* genre of Internet directories providing only cursory descriptions of sites, leaving it to subscribers to do their own fingerwork, *A Pocket Tour of Money* evaluates each site and provides enough information to serve as a screening tool. For example, if you're interested in stock or investment reports, *A Pocket Tour of Money* will describe the information that is being reported on, the quality of the reports, and, importantly, what it will cost you to subscribe.

The book is aimed not only at the Charles Schwab-type of investors but also professional analysts needing economic and financial resources. You'll find easy access to (or avoidance of) studies with titles like "Stochastic Dominance, Pareto Optimality, and Equilibrium Asset Pricing" in Gopherspace.

Both beginners and seasoned Internet cruisers will find the book useful. The basics are covered in a few introductory chapters. Those already knowing their way around the net can skip straight to the nitty-gritty.

If your interests are specific to a topic such as mutual fund analysis, futures and option trading, or portfolio management, each of the major areas is addressed in a separate chapter. Within each chapter, different types of sites are considered, such as World Wide Web, Gopher, or Usenet newsgroups, so the distillation is comprehensive. If you don't care for elves, you can skip the technical analysis.

Fister is a skillful tour guide, offering organization, structure, and credible opinions, pointing out both exceptional resources and pitfalls. All this helps the Internet traveler to save time and efficiently find the best places to visit. (SYBEX, Inc., 2021 Challenger Dr., Alameda, CA 94501. 1-800-227-2346)

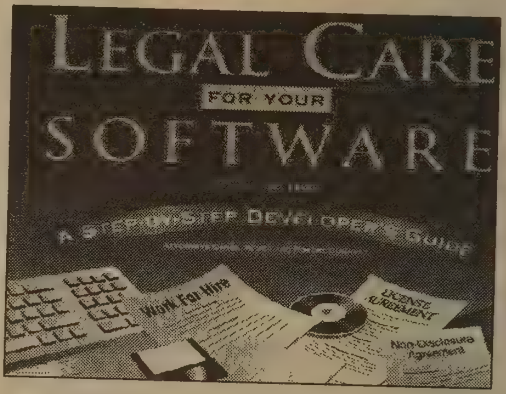
Legal Care For Your Software

Published By: SYBEX
List Price: $39.99
Reviewed By: David A. Simon, CPA

Legal Care for Your Software is a self-help guide through the legal wilderness faced by programmers and developers when structuring a contract. It first provides a primer on contract lingo and basic legal concepts such as ownership. From this underpinning, the book focuses on the business legalities that comprise the less fun aspects of professional computer programming.

Important areas covered include:

- "How-to" oriented information on copyright, patent, and trade secret protection
- Structuring a licensing agreement
- Limiting liability on software sale or licensing
- Contract negotiation strategies



Doing business with a large publisher or client can be tricky for the solo software person or for a couple of developers operating out of a garage. The small fry is at a natural disadvantage when it comes to the burdens of legal counsel, representation, and experience. By acquainting you with the basics and beyond, this volume helps you level the field before approaching an agreement.

A variety of sample forms are provided for frequently encountered situations, including letters of intent, site license agreements, and assignment of copyright.

Provisions for enforcing the contract, as well as real-world techniques for assuring payment and compliance with terms, are explored. And, if all else fails, there is a full chapter covering remedies from sending collection notices to actions for infringement.

The book is written in terms that a layperson can easily understand, yet is tightly edited to ensure accuracy. Users with legal sophistication will also find the book helpful, without it sounding simplistic or pedantic. Formal legal citations are footnoted as necessary, but never to the detriment of readability for the intended non-practitioner audience. (SYBEX, Inc., 2021 Challenger Dr., Alameda, CA 94501. 1-800-227-2346)

Fun And Games: The 3rd Annual Holiday Gift Guide

Product Reviews...

Inside 3D Studio Release 4 (Book And CD-ROM)

Authors: Steven D. Elliot and Phillip P. Miller
Published By: New Rider's Publishing
List Price: $55
Reviewed By: Pamela Mason

This twelve-hundred-page book updates the previous edition to cover Autodesk 3D Studio's latest version—Release 4. The authors spend a good amount of time on R4's new features, which include the ability to do Inverse Kinematics in the keyframer, the camera match perspective, and Keyscripting language.

The CD-ROM contains several utilities, files for the exercises and examples in the book, Paint Shop Pro 2.01, Graphics Workshop 7.0, the Autodesk Animator Pro Player for playing flics, Vistapro, a program for creating realistic landscape images, and various surface maps for texturing objects.

Inside 3D Studio Release 4 is packed with pragmatic tips and solutions from professionals who can help you learn from their experience (mistakes). For example, insightful information is included on importing .DXF file format mesh files. Their advice is wise and will especially help the new animator to develop good work habits for years to come. From project management to storyboarding to choosing an output format such as video, laserdisc, or DAT. This book touches on many of the subjects relative to the animation industry in general (not just 3D Studio), which will make it an indispensable next-to-the-computer resource. (New Riders Publishing, 201 West 103rd St., Indianapolis, IN 46290-1097. 1-800-428-5331)

Your First Modem, Second Edition

Author: Sharon Crawford
Published By: SYBEX
List Price: $22.99
Reviewed By: David A. Simon, CPA

As its title promises, *Your First Modem* starts with the basics. This book will teach you a V.42bis from a V.42-that, which protocol to select, and how to set the dip switches. Even before you plug in, you get straightforward shopping tips that cut to the copper: "DynaComm has almost as many features as ProComm Plus and only costs twice as much....What can I say?"

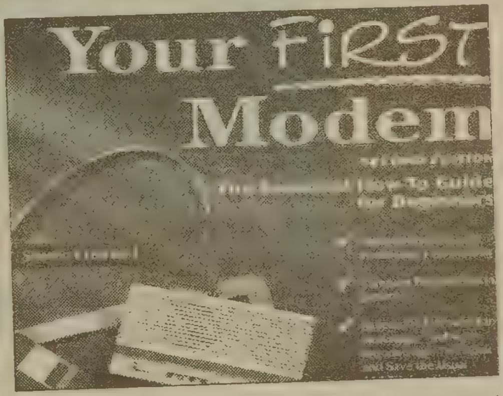
Indeed, one theme that permeates the book is "What does all this cost me?" Targeted to the personal or small-business user, *Your First Modem* serves as a guide to superior value at nearly every turn.

A separate chapter is devoted to each of the major, commercial online services (CompuServe, Prodigy, America Online)—not just the barebones comparisons of "has this, won't do that," but how to use it and what you'll get for the money.

The largest section is devoted to the Internet and provides extensive guidance on the major Service Providers, describing their key-by-key how-to, as well as their ethos. Example: "The WELL has a really archaic interface that makes absolutely nothing easy for you. However, subscribers to The WELL are...fanatically attached."

Users accessing the Internet will find a good sextant for navigating the World Wide Web and Gopherspace with clear, subjective explanations of the various search utilities: "Exploring the Web requires a 'browser' and not all browsers are created equal."

Your confidence will soar as you perform amazing feats. If you know the name of a file you want to download, "Archie will search the list it keeps and tell you where the file is located. You can then use FTP (File Transfer Protocol) to retrieve it."



Your First Modem is full of news for the beginner and intermediate and is sure to make a convert of any fence sitters. (SYBEX, Inc., 2021 Challenger Dr., Alameda, CA 94501. 1-800-227-2346)

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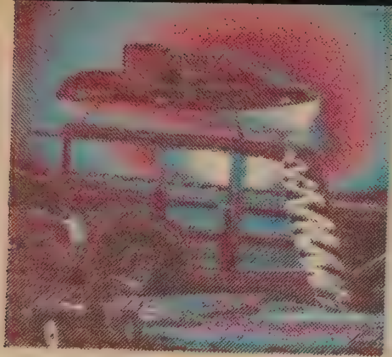
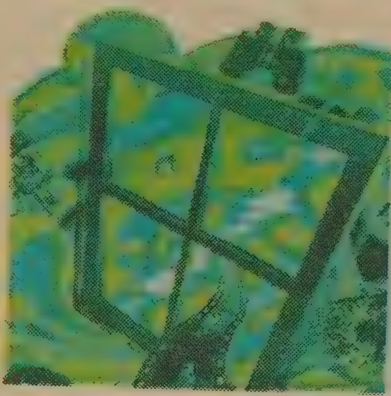




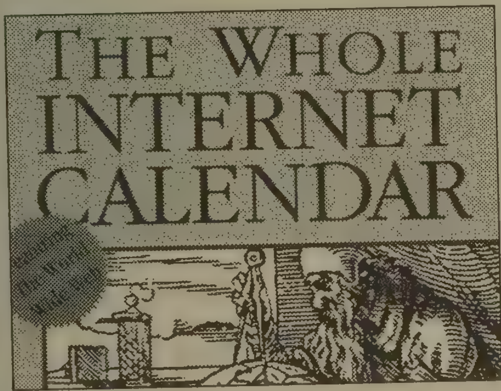
Delco Electronics

1995 Holiday New Products

Product Announcements

Accessories

The Whole Internet Calendar



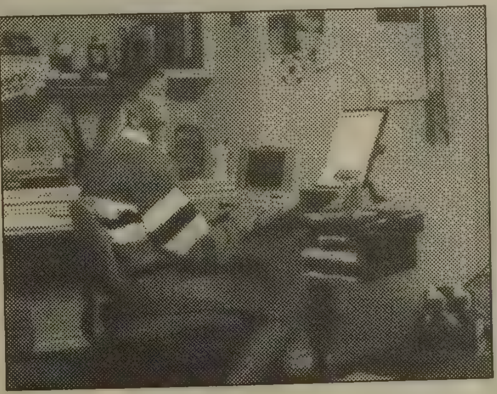
For net surfers and novices alike, The Whole Internet Calendar offers 365 adventures in cyberspace drawn from the best-seller *The Whole Internet User's Guide and Catalog*. This page-a-day calendar easily fits on your desk, measuring 5" x 5.25", is made from recycled paper ,and rests on a plastic backer. ($8.95) Workman Publishing, 708 Broadway, New York, NY 10003. (212)254-5900.

Polka-Disc Labels

A polka-dot pattern of adhesive on the back makes Polka-disc labels easy to remove from 3.5" disks. The adhesive dots are recessed on the label edge that aligns with the diskette edge. Diskette users can begin label removal by drawing a finger along the diskette edge. The label then peels off easily. For the newest version of Polka-disc, the back flap was eliminated to make label removal even easier. One sample customized business card packet of ten Polka-disc labels can be ordered by sending $1 check or money order to Polka Dot Products. Polka Dot Products, Inc., 4232 Colfax Ave. S., Minneapolis, MN 55409. (612)824-1760.

Laptop Desk

The Laptop Desk offers an ergonomic, adjustable desk designed specifically for users of laptop, notebook, and portable computers, whether they are students, business people, or those who use wheelchairs. It features a halogen-lighted, adjustable copy holder; two organizer shelves for books and papers; and a printer shelf that can support printers up to 25lbs. (the weight of an HP LaserJet IIIP printer). Under the printer shelf is an enclosed cable compartment equipped with a surge-protected AC power strip for organizing power cables and hiding bulky power transformers. The black laminate desk can be adjusted to the right height for different tasks, and is reversible for right- or left-handed access. The table holding the laptop is adjustable up to 45 degrees on both sides. ($176) American Business Concepts, Inc., 4400 Sunbelt Dr., Dallas, TX 75248-1892. 1-800-877-4797.



Media Box Storage System

The Media Box Storage System provides an individual, custom-sized box for whatever data-keeping media are being used—3.5" diskettes, 5.25" floppies, CD-ROMs, 4mm DAT tapes, data cartridges, Zip disks, Bernoulli cartridges, and magnetic optical cartridges. Designed by Tinz, in Germany, a designer dedicated to high-tech functional concepts, each box is sized to permit stacking and interlocking in an orderly arrangement. Drawers open and slide smoothly on durable precision guides and close with a click-shut positive lock feature for ease of use, security, and keeping out dust. Antiskid rubber feet secure units to surfaces without scratching. (Prices range from $20 to $36.50) POSSO Corp., 200 Holdsworth Dr., PO Box 727, Kerrville, TX 78029-0727. 1-800-343-8140.

InkJet Refill Starter Kit

The Parana 766 Starter Kit for refilling HP 5162A high-capacity inkjet cartridges contains a reusable refill station and one refill. This self-contained station is unbreakable, contains no moving parts, doubles as a

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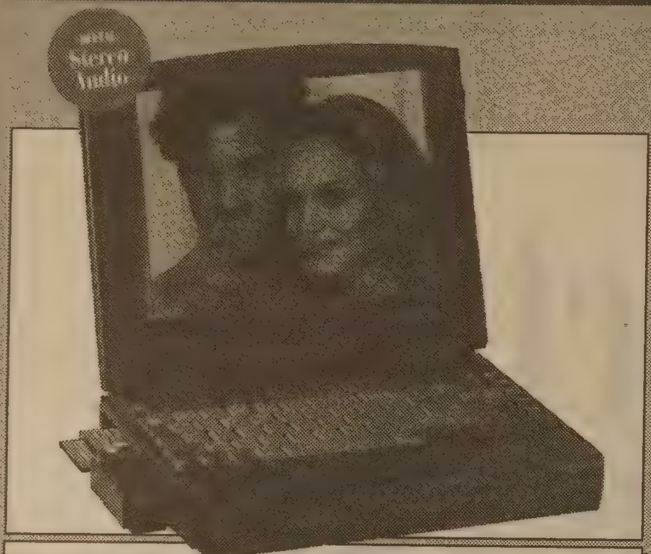

STANDARD FEATURES:

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- •32 Bit VLB w/1 MB Display
- •LCD/EXT & Simultaneous Display
- •Large Screen Size
- •PCMCIA-1 Type II & 1 Type III
- •Built-In Trackball
- •Built-In Sound Card/Speaker
- •Docking Station Option
- •Only 6.6 Lbs

DISPLAY	CPU TYPE	340 MB	510 MB	810 MB	1.2 GB
DUAL SCAN 4 MB RAM 10.3" SCREEN / 128K CACHE	486DX2-66 486DX4-100	$1597 1611	$1670 1684	$1818 1833	$1962 1976
ACTIVE COLOR 4 MB RAM 9.5" SCREEN / 128K CACHE	486DX2-66 486DX4-100	$1887 1901	$1960 1974	$2099 2103	$2253 2266
DUAL SCAN 8 MB RAM 10.3" SCREEN / 256K CACHE	PENTIUM 90 PENTIUM 100	$2110 2145	$2183 2217	$2312 2346	$2475 2509
ACTIVE COLOR 8 MB RAM 10.2" SCREEN / 256K CACHE	PENTIUM 90 PENTIUM 100	$2405 2446	$2478 2529	$2607 2648	$2770 3086

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4 MB RAM	Add '210
PCMCIA Fax Modem 14.4/14.4	Add '125
16 MB RAM	Add '835
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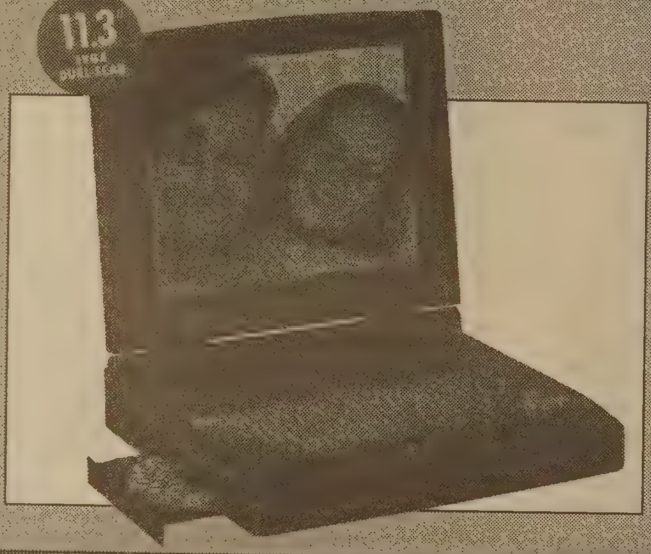
Extra Battery	Add '75

HITRON MULTIMEDIA NOTEBOOK



STANDARD FEATURES:

- •128K Flash BIOS
- •Simultaneous CRT/LCD Display
- •4 MB RAM/8 MB Pentium (Uses Standard 72 Pin SIMM)
- •11.3" VGA Dual Screen
- •10.2" VGA TFT Screen
- •Removable CD ROM
- •Removable 1.44 MB FDD
- •PCMCIA-1 Type II or 1 Type III
- •32-Bit VLB w/1 MB Display
- •Built-In Pointer Device
- •16-Bit Sound Card/Speaker/Mike
- •Only 6.7 Lbs
- •Docking Station Option

DISPLAY	CPU TYPE	340 MB	510 MB	810 MB	1.2 GB
DUAL SCAN	486DX2-66 486DX4-100	$2225 2215	$2298 2288	$2427 2417	$2590 2580
ACTIVE COLOR	486DX2-66 486DX4-100	$2586 2595	$2659 2673	$2678 2802	$2951 2965

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- •256K L2 Cache
- •1 MB VRAM Display
- •8/16/32 MB RAM Option
- •10.3" VGA Active Screen
- •Removable 1.44 MB FDD
- •Built-In Pointer Device
- •128KB Flash Bios ROM
- •Simultaneous CRT/LCD Display
- •11.3" VGA Dual Screen
- •Removable CD-ROM
- •PCMCIA-1 Type II or 1 Type III
- •Only 6.7 Lbs.

DISPLAY	CPU TYPE	510 MB	810 MB	1.2 GB
DUAL SCAN W/8MB	PENTIUM® 90/100 PENTIUM® 120/133	$2783/2834 2884/3058	$2912/2963 3013/3187	$3075/3126 3176/3350
ACTIVE COLOR W/8MB	PENTIUM® 90/100 PENTIUM® 120/133	$3153/3224 3313/3482	$3282/3353 3442/3611	$3445/3516 3605/3774

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486DX-100 (AMD)	$817
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- Intel DX-486 Processor
- 256K Cache Expandable to 512K
- 4 MB RAM Expandable to 128 MB
- 1.44 MB Floppy Drives
- 540 MB IDE Hard Drive
- PCI IDE Controller Card
- I/O with 2 Serial, 1 Parallel, 1 Game
- Cirrus Logic PCI w/ 1 MB RAM
- 14" SVGA NI .28dp Monitor
- 101 Enhanced Keyboard
- Mini Tower Case w/230W PS

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486DX4-120 (AMD)	$823
486DX4-100 (INTEL)	$821
486DX4-100 (AMD)	$803
486DX2-80 (AMD)	$772
486DX2-66 (INTEL)	$802
486SX2-50 (INTEL)	$772

- 256K Cache
- 4 MB RAM Expandable to 32 MB
- 1.44 MB Floppy Drives
- 540 MB IDE Hard Drive
- Vesa Local Bus 32 Bit IDE Cont 2H/2F I/O with 2 Serial, 1 Parallel, 1 Game
- VESA Local Bus SVGA Card w/1MB RAM
- 14" SVGA NI .28dp Monitor
- 101 Enhanced Keyboard
- Mini Tower Case w/230W PS
- Serial Mouse

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Pentium 90 MHz	**$2595**
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- Intel Pentium 90/100MHz Processor
- Dual Pentium Processor Option
- EISA PCI Motherboard Expandable to 512K Cache
- 16 MB RAM Expandable to 128MB
- 1.44 MB Floppy Drive
- 1.0 GB SCSI Hard Drive
- Adaptec 2940 PCI SCSI Controller
- I/O Card w/2S/1P
- ATI Ultra Turbo 64 Bit PCI w/2 MB VRAM Video Card
- 15" CTX SVGA Non-Interlaced
- Monitor (1280x1024) .28dp
- 101 Enhanced Keyboard
- Full Tower Case w/ 250W Power Supply
- 3 Button Serial Mouse

Options:

2nd Pentium 90 MHz CPU:	+$315
1 GB SCSI Tape Back-Up:	+$610
ATI Ultra Turbo 64 Bit PCI w/4MB:	+$199

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PENTIUM 75	$1142
PENTIUM 90	$1231
PENTIUM 100	$1282
PENTIUM 120	$1338
PENTIUM 133	$1523

- Intel Pentium Processor
- 256K Cache
- 8 MB RAM Expandable to128 MB
- 16KB Internal Pentium Cache
- 1.44 MB Floppy Drives
- 540 MB IDE Hard Drive
- PCI IDE Controller w/UART 16550 Card
- I/O with 2 Serial, 1 Parallel, 1 Game
- PCI SVGA w/1 MB Video Card
- 14" SVGA .28dp NI Color Monitor
- 101 Enhanced Keyboard
- Mid Tower Case w/250 W PS

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Impression 14" .28 NI	$225
Impression 7 17"	555
CTX 15" .28 NI	345
ADI 15" 4GP	355
ADI 17" 5EP .28	615
ViewSonic 15ES 15" 1024x768	375
ViewSonic 17" 1600x1280	810
ViewSonic 17G 1280x1024	690
Sony 15 5F	489
Sony 17 SR	869
Mag 15FE	375
Mag 17F	689

DISPLAY CARDS

ATI Ultra Win Turbo 64 PCI/4 MB	$405
ATI Ultra Win Turbo PCI/VLB 2 MB	255
Orchid Kelvin 64 VLB/PCI 1 MB	120
Orchid Kelvin 64 VLB/PCI 2 MB	160
Diamond Stealth 64 PCI/VLB 4 MB VRAM	390
Diamond Stealth 64 PCI/VLB 2 MB VRAM	255
Diamond Stealth PCI/ 1 MB DRAM	125
Diamond Stealth PCI/2 MB DRAM	178
Cirrus Logic 5428 VLB/1 MB 2 MB	75/112
Cirrus Logic 5434 PCI/1 MB	89

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420 MB IDE	$135
540 MB IDE/SCSI	155/210
730 MB IDE	175
830 MB IDE	189
1.2 GB IDE	235
2.1 GB SCSI	595

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14.4/14.4 Int/Ext	$55/95
28.8/28.8 Int/Ext	125/165
350 MB Tape Back-up Int/Ext	150/325

MOTHERBOARDS

486SX/DX-25/33/50/66	$85
486SX/DX-25/33/50/66 PCI	135
Asus Pentium MB For 90/100 256K	190

FLOPPY DRIVES

1.44 MB (3.5") FDD	$24
1.2 MB (5.25") FDD	38

MOUSE

3 Button Serial	$8
Microsoft Serial	22
Logitech First Mouse	28

CONTROLLER CARDS

32 Bit 2940 SCSI Card	$195
32 Bit 2940W SCSI Card	239

MULTIMEDIA CD-ROMS

Sony 2X	$65
Toshiba 4X SCSI	285
NEC 4X SCSI	230
Mitsumi 4X IDE	150
Teac 4X IDE	138
Plextor 4X SCSI	295
Plextor 6X SCSI	430

SOUND CARDS

Sound Blaster 16Bit	$65
Sound Blaster AWE	259

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MULTIMEDIA PACKAGES

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Sound Blaster 16 Bit
With Items Below
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2) TEAC 4X Speed CD-ROM
Sound Blaster 16 Bit
With Items Below
$303

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•486DX-X BOARD w/256K VLB (30pin SIMM)	$45
•486DX-X BOARD w/256K VLB (30+ 72pin SIMM)	55
•486DX-X PCI BOARD w/256K PCI (72pin)	95
•486DX-X PCI BOARD w/256K PCI (30+ 72pin SIMM)	87
•MICRONICS 486DX-X BOARD VLB (30pin, FULL SIDE)	55
•MICRONICS 486DX-X BOARD VLB W/256K (72pin)	135
•AMI 486DX-X BOARD W/256K VLB (72pin)	145
•PENTIUM® 66 BOARD W/256K VLB (72pin)	100
•170 MB SCSI CONNER HDD	150
•817 MB SCSI NEC HDD	225
•SMC 16 BIT ETHERNET W/1 MB VLB CARD	70
•ORCHID FAHRENHEIT W/1 MB PCI DISPLAY CARD	100
•ATI WONDER W/1 MB PCI DISPLAY CARD	100
•ZOLTRIX 8 BIT SOUND CARD	35
•BUILT-IN SPEAKER TO CASE	40
•BLACK 1.2 MB FLOPPY DRIVE	48
•BLACK 1.44 MB FLOPPY DRIVE	45
•PLEXTOR 6X CD-ROM (INTERNAL)	430

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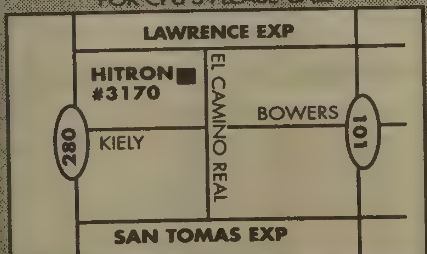

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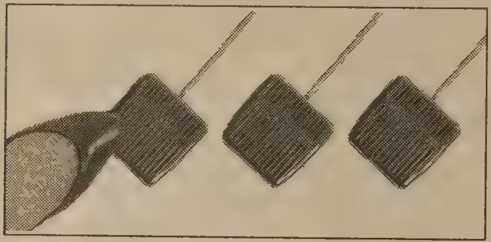
New Products...

continued from page 139

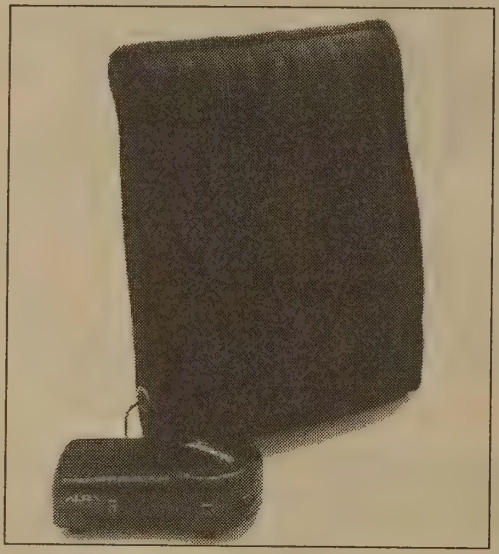
storage container, and promises "clean hands" while refilling ink cartridges. It operates by lining up blue arrows on the station, cartridge, and refill tank; snapping them together; then pulling a tab for the ink to flow from the refill tank directly into the cartridge without spillage. ($24.95; for follow-up use, the Parana 767 twin-pack of refill tanks is also available for $24.95) Parana Supplies Corp., 3625 Del Amo Blvd., Suite 260, Torrance, CA 90503. (310)793-1325.

Step On It!



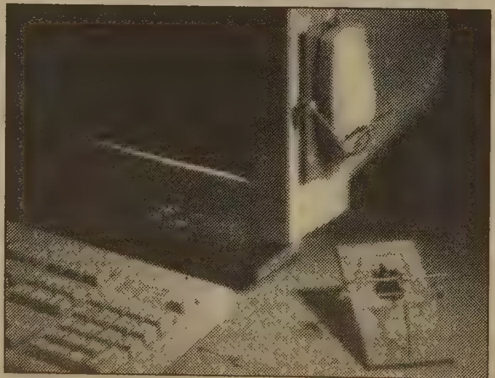
Step On It! computer control pedal is designed to relieve your fingers from the strain associated with heavy typing. Other applications include games and simulations as well as use by people with limited hand abilities. Three programmable switches emulate Control, Shift, and Alt keys. Holding down the Control key with your toe, for example, makes it easier and smoother to type key combinations requiring this key. The pedal can also be programmed like a macro to type a common word or phrase (up to thirteen characters). It works with a 286 or higher PC running Windows or OS/2. ($99)Bilbo Innovations, Inc., 1290 Oakmead Pkwy., #18, Sunnyvale, CA 94086. 1-800-203-0092. URL:*http://www.bilbo.com/tae/bilbo/bilbo.html* .

Interactor Virtual Reality Cushion



When placed on a couch or chair and leaned against, the Interactor Cushion adds the sensation of feeling to the sights and sounds of CD-ROMs, television, videos, music, and computer/video games. The lightweight cushion uses Aura's patented electromagnetic actuator technology developed as an outgrowth of work performed by Aura for the US military. The Interactor plugs into virtually any audio output, triggering an Aura magnetic actuator within the soft cushion's center, which in turn actively converts bass sound waves into body-pulsing vibrations synchronized with the soundtrack. Controls allow the output to be fine-tuned from a feather touch to intense resonation and can be adjusted for natural fidelity and feel for music/video inputs. The Interactor Cushion comes complete with its own amplifier and set of adapters to plug into a variety of systems including multimedia computers; televisions; VCRs; CD players; stereos; and 16-, 32-, and 64-bit video game systems. ($99) Aura Systems, Inc., 2335 Alaska Ave., El Segundo, CA 90245. 1-800-909-AURA.

MouseTrap Mouse Holder



The MouseTrap is a mouse holder that mimics the appearance of a traditional mousetrap. It attaches to the side of any computer with the included self-adhesive pad. Once hung, it cradles your mouse securely, offering a convenient way to get the mouse off your desk when jotting notes or performing other noncomputer tasks. It features a 5" x 2 5/8" natural pine base. A U-shaped bale of antiqued-brass wire projects from the base, connecting to the sides with spring-like coils. A brass hook extends from the bottom of the base to meet the wire bale and hold it in place. ($6.99) Computer Expressions, Inc., 4200 Mitchell St., Philadelphia, PA 19128. (215)487-7728.

Ergowrist

Ergowrist is an ergonomic device to support the user's hand while using a mouse. It supports the hand in a natural, restful posture with an adjustable pad that fits under the palm and a padded rest for the wrist. Rather than moving your wrist, the Ergowrist slides easily under the weight of your hand, allowing your whole arm to move the mouse short and long distances. In addition, it allows your fingers to control the mouse accurately for small movements. It fits either hand, works on any surface a mouse works on, is compatible with almost all mice, and needs very little space in which to work. ($9.95) Ergolink Inc., 1111 Homer St., Suite 203, Vancouver, BC Canada V6B 2Y1. (604)682-4145.

CDR-50 CD-ROM Storage

Case Logic's CDR-50 takes advantage of its ProFile protective CD sleeve system, originally developed for music CDs to protect and organize fifty CD-ROMs in 75% less space than normally required. The unit is designed to be aesthetically compatible with computers, and stores up to fifty CD-

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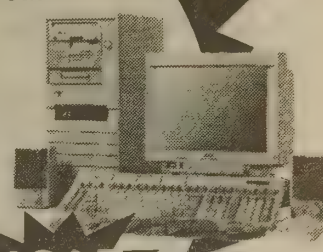
- Dictionary •Thesarus
- Quotations •Encyclopedia,
- World Atlas •Chronology
- 1995 Almanac



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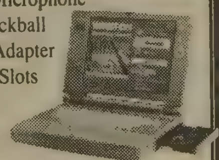

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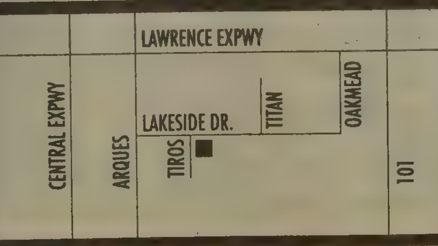

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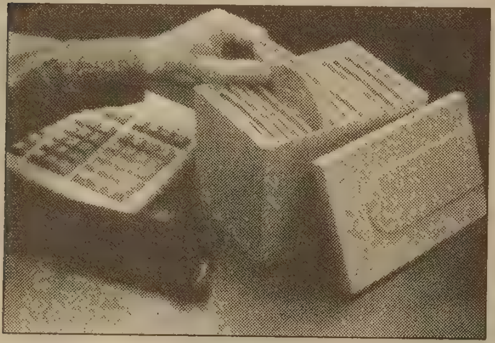
ROMs, without their jewel boxes, in plastic sleeves. ($24.95) Case Logic, Inc., 6303 Dry Creek Pkwy., Longmont, CO 80503. 1-800-447-4848.



Multimedia Soundpad

The Multimedia Soundpad is a PC-compatible control accessory that operates with the simplicity of a TV remote control device to control audio mixing and CD audio functions of multimedia PCs. It is a twenty-one-button keypad roughly the size of a credit card with buttons for volume; tone; balance; and the relative output volume levels of digitized voice (Wave), background music (MIDI), microphone, CD, and an auxiliary line input source. It also includes mute and CD-ROM eject controls and five mixer memory settings. The Multimedia Soundpad connects to PCs by means of a serial DB9 plug and operates at any standard COM address without the use of IRQs. ($39.95) Futuretouch, 2030 E. Fourth St., #152, Santa Ana, CA 92705. (714)558-6824.

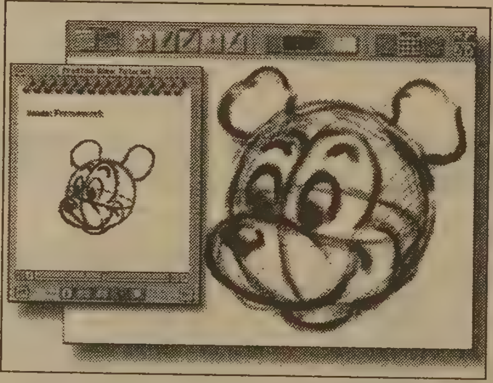
ActionCall

ActionCall Computer Help Cards are a way for computer users to have twenty-four-hour, toll-free access to worldwide technical support for virtually every standard PC and Macintosh program in business use today. With the ActionCall card, users call an 800 number, provide their Personal PIN Number, and are immediately connected to a technical support professional. Available payment plans range from a per call charge to unlimited calls to a corporate multiuser plan and for periods of three months, six months, or one year. ($19.95 per call; $69.95 for three months, $129.95 for six months, or $189.95 for a year of unlimited calls; or $16.50 per month per authorized user for the multiuser corporate card) ActionCall, 10900 Wilshire Blvd., Los Angeles, CA 90024. (714)727-2460.

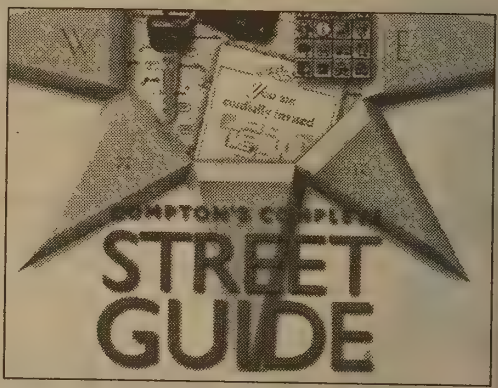
CD-ROM Software

Dabbler 2

Version 2.0 offers a major upgrade to this easy-to-use paint-and-draw application designed for users of all ages, but appealing most strongly to children eight years and older and young adults. The CD includes Windows 3.1, Windows 95-native, Macintosh, and Power Macintosh versions. Dabbler's straightforward interface helps educators, hobbyists, children, and adults create original art quickly. New electronic tutors include lessons based on Walter Foster's classic learn-how-to-draw books as well as an online users guide. Other new features include one of the first programs for the home to offer flipbook animation; dozens of Natural-Media paint and draw tools and special effects that respond like traditional art materials; a tracing paper feature that allows you to trace scanned photos or other images; and one hundred professional stock photographs from PhotoDisc, more than three hundred stencils, over one hundred paper textures, and three image font libraries. ($69) Fractal Design Corp., PO Box 2380, Aptos, CA 95001. (408)688-8836.



Compton's Complete Street Guide



This CD helps families create customized maps for providing directions to parties and business destinations, planning vacations, and designing maps for road trips. Beyond just finding a road to a destination on the computer, Compton's Complete Street Guide lets you locate a street o area, highlight a chosen route, and add visual "stamps" to generate easy-to-follow printed maps. The more than one hundred stamps include billboards, traffic lights and houses. The electronic atlas contains millions of street segments, viewable at ten levels of magnification ranging from the entire US down to city neighborhoods. You can search for any state, city, county zip code, street, or road in the US, including Alaska and Hawaii. Maps can be printed in color or black and white. They can be copied to other Windows programs and incorporated into documents used for charting family getaways or business trips. ($59.95) Compton's New Media, Inc., 2320 Camino Vida Roble, Carlsbad, CA 92009-1504. (619)929-2500.

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continued on page 150

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Kits include terminator, SCSI cable, and 1 cartridge!

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270MB	SQ3270	SCSI/IDE	$459

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88MB	SQ800	5.25"	$55/265
105MB	SQ310	3.5"	$59/285
200MB	SQ2000	5.25"	$79/385
270MB	SQ3270	3.5"	$65/315

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adaptec

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All Kits include software, cables, and documentation!

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AHA-1542CP	16 Bit BusMaster Fast SCSI-2 Kit	$245
AHA-1640	16 Bit MCA to Fast SCSI-2 Kit	$285
AHA-2742AT	32 Bit EISA to Fast SCSI-2 Kit	$349
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All Kits include software, cable, and documentation!

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KT-747C	32 Bit EISA Fast SCSI-2 Kit	$315
KT-757C	32 Bit EISA Fast Wide SCSI Kit	$375
KT-930	32 Bit PCI Ultra SCSI-2 Kit	$155
KT-946C	32 Bit PCI Fast SCSI-2 Kit	$235
KT-956C	32 Bit PCI Fast Wide SCSI Kit	$265
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KT-410AC	32 Bit VLB, 4HD to 4GB, CD-ROM	$119
KT-510AC	16 Bit ISA, 4HD to 4GB, CD-ROM	$89
KT-910A	32 Bit PCI, 4HD to 4GB	$159

PROMISE

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DC5030E	PCI/EIDE, caching up to 16MB, Bus Master	$139
DC540	PCI, Fast & Wide SCSI-2 NCR Chip, Bus Master	$169

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DIAMOND

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SpeedStar 64 2000	1MB/2MB, ISA, DRAM	$145/199
Stealth 64 Video 2000	1MB, PCI/VLB, DRAM	$169
Stealth 64 Video 2000	2MB, PCI/VLB, DRAM	$219
Stealth 64 Video 3000	2MB, PCI/VLB, VRAM	$329
Stealth 64 Video 3000	4MB, PCI/VLB, VRAM	$469

NUMBER NINE VISUAL TECHNOLOGY

9FX Vision 330	1MB Power accel. PCI/VLB DRAM	$139
9FX Vision 330	2MB Power accel. PCI/VLB DRAM	$189
9FX Motion 531	1MB/2MB PCI/VLB DRAM	$189/229
9FX Motion 771	2MB/4MB PCI/VLB VRAM	$299/449
IMAGINE 128	2MB/4MB PCI VRAM	$495/625
IMAGINE 128	1600 4MB PCI VRAM	$845
IMAGINE 128	PRO 8MB PCI VRAM	$1325

ATI TECHNOLOGIES INC.

Graphics Xpression PCI/VLB/ISA 1280x1024, up to 75HZ, 1MB/2MB DRAM	$159/209
WinTurbo PCI/VLB/ISA, 1280x1024, 2MB VRAM	$269
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matrox

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Sapphire 2SX! 8MB, PCI, VRAM, 1600x1200, 3D/Windows NT Accelerator Card $1125

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DAT Series (4mm)		*Int/Ext*
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1536	2-4GB, 3.5" DDS-1, 366KB	$769/869
C1533A	4-8GB, 3.5" DDS-2, 510KB	$999/1099
C1553A	24-48GB, 5.25" DDS-2	$2079/2189
HP-BKT	5.25" bracket for 3.5" Int. unit	$39

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8700	7-14GB 8mm w/SW, adapter.	$NA/1699

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EXTERNAL UNIT $1748

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Deskstar XP DPES-31080
☐ 10.5ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
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- 128K Cache Buffer
- 300,000 Hours MTBF

$199

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730MB	30730LTA	11ms	IDE	$198	$N/A
730MB	30730LTS	11ms	SCSI	$199	$249
Fireball Series-(5400RPM/128K Cache/3 Yr Warr)					
1.08GB	31080FBA	12ms	IDE	$240	$NA
1.2GB	31280FBA	12ms	IDE	$254	$NA
1.08GB	31080FBS	12ms	SCSI	$309	$359
1.2GB	31280FBS	12ms	SCSI		$CALL
TrailBlazer Series-(4500RPM/128K Cache/3 Yr Warr)					
840MB	30850TRA	14ms	IDE	$199	$NA
840MB	30850TRS	14ms	SCSI	$229	$279
Capella Series-(5400RPM/512K Cache/5 Yr Warr)					
2.2GB	VP32210S	8.5ms	3.5"x1"	$658	$728
Grand Prix Series-(7200RPM/512K Cache/5 Yr Warr)					
4.3GB	GP34301S	8.6ms	3.5"	$972	$1042
Atlas Series-(7200RPM/1MB Cache/5 Yr Warranty)					
2.1GB	XP32150S	8ms	3.5"x1"	$837	$907
4.3GB	XP34300S	8ms	3.5"	$1159	$1229
Empire-II Series-(5400RPM/512K Cache/5 Yr Warr)					
2.18GB	EMP32181S	8.9ms	3.5"x1"	$New	$Call
4.36GB	EMP34360S	8.9ms	3.5"x1"	$New	$Call
9.10GB	EMP39100S	8.9ms	3.5"	$New	$Call

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2.1GB FAST SCSI-2

- Model# CFP2105S
- 5 YEAR WARRANTY
- <9ms FAST, 5400 RPM.
- 512K Cache Buffer
- Up to1,000,000 Hours MTBF

$646 External ... $716

Enhanced IDE DRIVES

FileProSeries-(3,600RPM/64K Cache/1-3 Yr Warranty)				
540MB	CFS541A	<15ms	3.5"x1"	$177
850MB	CFS850A	<15ms	3.5"x1"	$204
1.27GB	CFS1275A	<15ms	3.5"x1"	$299
FilePro Advantage Series- (4,500RPM /256K Cache / Up tp 16.7MB/s Data Trans Rate / 1-3 Yr Warranty)				
850MB	CFA850A	<12ms	3.5"x1"	$Call
1.27GB	CFA1275A	<12ms	3.5"x1"	$333

FAST SCSI-2 DRIVES

				INT	EXT
FilePro Series-(5,400RPM/512K Cache/5 Yr Warr)					
1.0GB	CFP1060S	9ms	3.5"x1"	$299	$349
FilePro Performance-(512K Cache/5 Yr Warr)					
1.0GB	CFP1080S	11ms	5400RPM	$285	$335
2.1GB	CFP2105S	8.5ms	5400RPM	$646	$716
2.1GB	CFP2107S	8.5ms	7200RPM	$778	$848
4.2GB	CFP4207S	9ms	7200RPM	$1045	$1115

Maxtor

1.2GB Enhanced IDE

- Model# 71260A
- 2 YEAR WARRANTY.
- <12ms / 4,500 RPMs.
- 256K Cache Buffer.
- Audio Video Ready.

$298

Enhanced IDE DRIVES

540MB	7541AV	12ms	3.5"x1"	$179
850MB	7850AV	12ms	3.5"x1"	$202
1.2GB	71260A	Audio Video <12ms	3.5"x1"	$298
1.6GB	71626A	Audio Video <12ms	3.5"x1"	$320

Enhanced IDE

IBM

1.0GB FAST SCSI-2 DRIVE

- Model# DPES-31080
- 3 YEAR WARRANTY
- 10.5ms FAST, 5400 RPM.
- 512K Cache Buffer
- 500,000 Hours MTBF

$275 External ... $325

FAST SCSI-2 DRIVES

				INT	EXT
Deskstar XP Family-(MR Head Technology/3 Yr Warr)					
528MB	06H7142	12ms	IDE	$189	$N/A
540MB	06H8559	12ms	SCSI	$218	$268
1.0GB	DPES31080	10.5ms	SCSI	$275	$325
Satsuma Family- (3 Year Warranty)					
728MB	94G2647	12ms	SCSI	$269	$319
Ultastar XP Family-(MR Head Technology/5 Yr Warr)					
2.3GB	94G3192	7.5ms	7200RPM	$1040	$1110
4.5GB	94G3198	8ms	7200RPM	$1678	$1748
5.1GB	06H8431	8ms	Audio Video	$1899	$1969
5 3GB	94G3794	7.5ms	7200RPM	$1909	$1979

Seagate

4.3GB FAST SCSI-2

- Model# ST15230N
- 5 YEAR WARRANTY
- 9ms FAST, 5411 RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

$999 External ... $1069

Enhanced IDE DRIVES

545MB	ST3660A	14ms	Fast ATA	$175
850MB	ST5850A	12ms	Fast ATA-2	$209
1.08GB	ST51080A	12ms	Fast ATA-2	$239
1.63GB	ST31640A	NEW	Fast ATA-2	$Call
2.14GB	ST32140A	NEW	Fast ATA-2	$Call

FAST SCSI-2 DRIVES

				INT	EXT
Hawk Series-(5411RPM/512K Cache/5 Yr Warr)					
1.0GB	ST31231N	9ms	3.5"x1"	$395	$445
2.1GB	ST32430N	9ms	3.5"x1"	$716	$786
4.3GB	ST15230N	9ms	3.5"	$999	$1069
Barracuda Series-(7200RPM/8ms Avg Seek/5 Yr Warr)					
2.1GB	ST32550N	512KCache	3.5"x1"	$851	$921
4.3GB	ST15150N	1MBCache	3.5"	$1299	$1399
Elite Series-(5,400RPM/1MB Cache/5 Yr Warranty)					
9.0GB	ST410800N	11ms	5.25"	$2399	$2524

WESTERN DIGITAL

1.6GB Enhanced IDE

- Model# WDAC31600
- 3 YEAR WARRANTY
- <10ms FAST, 5200 RPM.
- 128K Cache Buffer
- Up to 16.6MB/s Trans Rate

$347

Enhanced IDE DRIVES

635MB	AC2635		3.5"x1"	$179
850MB	AC2850	*NEW* <10ms	3.5"x1"	$189
1.0GB	AC21000		3.5"x1"	$239
1.28GB	AC31200	*NEW* <10ms	3.5"x1"	$299
1.6GB	AC31600	<10ms	*NEW*	$347

Enhanced IDE

HEWLETT PACKARD

1.2GB FAST SCSI-2 DRIVE

- Model# HPC-1724S
- 5 YEAR WARRANTY
- 9.5ms FAST, 5400 RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

$309 External ... $359

ENHANCED IDE DRIVES

1.08GB	C5270A	12ms	3.5"x1"	$276
1.6GB	C5271A	12ms	3.5"x1"	$371

FAST SCSI-2 DRIVES

				INT	EXT
1.2GB	C3724S	9.5ms	3.5"x1"	$309	$359
217GB	C3725S	9.5ms	3.5"x1"	$669	$739

MICROPOLIS

1.7GB FAST SCSI-2 DRIVE

- Model# MC2217
- 5 YEAR WARRANTY
- 10ms FAST, 5400 RPM.
- 512K Cache Buffer
- 300,000 Hours MTBF

$639 External ... $679

FAST SCSI-2 DRIVES

				INT	EXT
1.75GB	MC2217	10ms	3.5"	$639	$679
2.0GB	MC4221	8.5ms	3.5"x1"	$763	$833
4.0GB	MC3243	8.5ms	3.5"	$1045	$1115
9 1GB	MC1991	11ms	5.25"	$1990	$2115

Audio Video FAST SCSI-2

				INT	EXT
1.75GB	MC2217AV	10ms	3.5"	$659	$699
2.0GB	MC4221AV	8.5ms	1"	$826	$896
4.0GB	MC3243AV	8.5ms	3.5"	$1153	$1223
9.1GB	MC1991AV	11ms	5.25"	$2153	$2278

FUJITSU

540MB FAST SCSI-2

- Model# M1603SAU
- 3 YEAR WARRANTY
- 10ms FAST, 5400 RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

$189 External ... $239

Enhanced IDE DRIVES

M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)				
540MB	M1603TAU	10ms	PIO 4	$175
1.08GB	M1606TAU	10ms	PIO 4	$236

FAST SCSI-2 DRIVES

				INT	EXT
M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)					
540MB	M1603SAU	10ms	3.5"x1"	$189	$239
1.08GB	M1606SAU	10ms	3.5"x1"	$279	$329
Allegro Series-(7,200RPM/512K Cache/MR Head Tech)					
2.17GB	M2915SA	9ms	3.5"x1"	$642	$712
4.3GB	M2934SA	10ms	3.5"x1"	$1069	$1139

FAST WIDE

Seagate

FAST WIDE DRIVES				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$589	$769
2.1GB	ST32430W	9ms	3.5"x1"	$779	$959
2.1GB	ST32550W	8ms	3.5"x1"	$899	$1079
4.3GB	ST15230W	9ms	3.5"	$1042	$1222
4.3GB	ST15150W	8ms	3.5"	$1346	$1526
9.0GB	ST410800W	11ms	5.25"	$2279	$2529
FAST WIDE DIFFERENTIAL					
4.3GB	ST15150WD	8ms	3.5"	$1399	$1649
9.0GB	ST410800WD	11ms	5.25"	$2519	$2819

Quantum

FAST WIDE DRIVES				INT	EXT
2.1GB	XP32150W	8ms	3.5"x1"	$909	$1089
2.2GB	VP32210W	8.5ms	3.5"x1"	$799	$979
4.3GB	GP34301W	8.6ms	3.5"	$1079	$1259
4.3GB	XP34300W	8ms	3.5"	$1299	$1479

MICROPOLIS

FAST WIDE DRIVES				INT	EXT
2.0GB	MC4221W	8.5ms	3.5"x1"	$979	$1159
4.0GB	MC3243W	8.5ms	3.5"	$1199	$1379
9.1GB	MC1991W	11ms	5.25"	$2339	$2589
Audio Video FAST WIDE					
2.0GB	MC4221WAV	8.5ms	3.5"x1"	$944	$1124
4.0GB	MC3243WAV	8.5ms	3.5"	$1286	$1466
9.1GB	MC1991WAV	11ms	5.25"	$2417	$2667
FAST WIDE DIFFERENTIAL					
2.0GB	MC4221WD	8.5ms	3.5"x1"	$959	$1209
4.0GB	MC3243WD	8.5ms	3.5"	$1329	$1579

CONNER

FAST WIDE DRIVES					
1.0GB	CFP1060W	9ms	3.5"x1"	$599	$779
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2.1GB	CFP2107W	8.5ms	7200RPM	$879	$1059
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WIDE SCSI CONTROLLERS

adaptec

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QLPCI-W	32-Bit IQ-PCI Wide SCSI-3 w/Cable	$295

PROMISE TECHNOLOGY, INC.

DC540	BusMaster WIDE SCSI PCI (no wide cable)	$178

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Centronics 50 to 68 Pin Fast Wide...3ft/6ft	$49/$55
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EPSON			
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SD-400B	3.5" w/Bracket	1.44MB	$32
SD-700	5.25"	1.2MB	$35
SD-800	COMBO	1.2/1.44	$85
NEC			
FD1148	3.5"	1.44MB	$26
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Quantum

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514MB	DY514AT	17ms	IDE	$Call
341MB	DY341S	17ms	**SCSI**	$299
514MB	DY514S	17ms	**SCSI**	$435
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810MB	20810EUA	17ms	IDE	$474
1.08GB	21080EUA	17ms	IDE	$534

Seagate

209MB	ST9300AG	16ms	IDE	19mm	$290
420MB	ST9420AG	16ms	IDE	19mm	$315
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PT25	2.0GB SCSI-2 -1/4"	$945/$1089
PT50	4.0GB SCSI-2 -1/4"	$1139/$1199
PD60	2-4GB SCSI-2 DAT *NEW*	$994/$1089

Trakker

EXTERNAL. RUNS OFF PRINTER PORT

JT35	350MB TRAKKER 350	$260
JT25	680MB TRAKKER 700	$315

WangDAT

4mm DAT SCSI Series

3100	.2.0GB 3.5" DDS 183kb/s	$687/$799
3200	4-8GB 3.5" DDS-DC up to 366kb/s	$753/$869
3400DX	4-8GB DDS-2, 22-44mb/min	$875/$989

WANGTEK

5.25" 1/4" SCSI TAPE BACKUP

5150ES	250MB	6.75MB/min	$299/$499
5525ES	525MB	12 MB/min	$411/$599
51000HT	1.2GB	17.1 MB/min	$525/$679
9500DC	5-10GB	36-72 MB/min	$826/$979

SCSI BACKUP S/W

NovaBack by NovaStor

NBDOS	SINGLE USER FOR DOS	$52
NBWIN	SINGLE USER FOR WINDOWS	$55
NBOS/2	SINGLE USER FOR OS/2 (Warp Sup)	$69
NBNET50	NLM 50 USER (DOS)	$325
NBNETU	NLM UNLIMITED USERS (DOS)	$385
NBNETJr	NLM JUNIOR (DOS) for Networks	$188
NBMAC	Nova MAC for Macintosh	$65

OPTICALS

Maxoptix

1.3GB Rewritable Optical Drives

NEW!

		INT/EXT
Tahiti-4M	*1MB* Cache buffer (HH)	$1699/1749
Tahiti-4M	*4MB* Cache buffer	$CALL
Tahiti-3M	*1MB* Cache buffer	$1789/$1889
Tahiti-3M	*4MB* Cache buffer	$1966/$2066
1.3GB Cart	(512or1024bSector) Glass/Poly	$129/$89

HEWLETT PACKARD

Rewritable Optical Drives

C1716T	1.3GB 5.25" INT/EXT	$1939/$1985
C2550A	1.3GB 5.25" External	$2233
C1100A	20GB Ext Juke Box (20XT)	$4589
	1.3GB(1024b/s) or 1.2GB(512b/s)cartridge	$79

FUJITSU

DynaMO 2512 230MB 3.5" Optical

2512A/2512B	Internal 230MB Unit	$408/$524
	External with 230MB Cart for PC	$569
	EXTERNAL w/16 Bit Adapter & Cart for PC	$684
	EXTERNAL w/Software,Cable & Cart for MAC	$578

PINNACLE MICRO

Tahoe 230

The Next Generation of the 1st Portable Optical Drive

230MAC	Portable 230MB for MAC	$699
230PCT	Portable for PC (Parallel)	$839
230PCA	Portable w/Adaptec Interface	$795
230PCAN	Portable for PC (no Interface)	$696
Pak-Travel	Battery,charger & travel case	$105

Sierra 1.3GB

1.3GB Optical Hard Drive Storage System

1.3 MAC	External 1.3GB for MAC	$1665
1.3 PC	External w/Adaptec Interface	$1739
1.3 PCAN	External for PC (no Interface)	$1659
1.3 PCi	Internal w/Adaptec Interface	$1729

IBM

230MB & 1.3GB Rewritable Opticals

230MB Internal/(External with cart)	$516/$675
1.3GB Internal 5.25" Removable MO	$1599
1.3GB External 5.25" Removable MO	$1918

PORTABLE SOLUTIONS

2.5" NOTEBOOK DRIVES

Quantum

341MB	DY341AT	17ms	IDE	$292
514MB	DY514AT	17ms	IDE	$340
540MB	20540EUA	17ms	IDE	$420
810MB	20810EUA	17ms	IDE	$474
1.08GB	21080EUA	17ms	IDE	$534
341MB	DY341S	17ms	SCSI	$249
514MB	DY514S	17ms	SCSI	$325

TOSHIBA

540MB	MK1924FCV	13ms	12.7mm	$282
810MB	MK1926FCV	13ms	12.7mm	$472
1.3GB	MK2720FC	*NEW*	19mm	$587

Parallel Port Drives

Portable Hard Drives

NEW!

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- ♦ Simple Installation w/EPP & 1284 port support.

HD400	Portable 400MB+ Drive	$276
HD500	Portable 500MB+ Drive	$299
HD600	Portable 700MB+ Drive	$325
HD800	Portable 800MB+ Drive	$359
HD1200	Portable 1.2GB Drive	$409
HD1600	Portable 1.6GB Drive	$539

Portable CD-ROM Drives

CD4X	Portable Quad Speed CD-ROM	$269

PCMCIA & Parallel Controllers

adaptec

1460	Slim SCSI PCMCIA KIT **NEW **	$166
T348	Parallel to SCSI Plus 250KB/S	$88
T358	Parallel to SCSI EPP 1MB/S	$116

PCMCIA FAX/MODEMS

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28.8	PCMCIA 2.1Fax/Modem	$323

The Only V. Everything Modem !

28.8	PCMCIA V.34 Data/Fax	$369
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TAPES & CARTS

4mm DAT

		Ea./5Pak
Exabyte/HP	90 Meter	$20/$90
Maxell/3M/Sony	90 Meter	$15/$65
Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter(DDS-2)	$29/$139
4mm Cleaning Cartridge		$20/$95

8mm Data Carts

		Ea./5Pak
Exabyte/Sony	112 Meter up to 5GB	$19/$90
Exabyte/Sony	160 Meter XL up to 7GB	$29/$140

Mini Data Carts

Sony	QIC-WIDE QW5122F up to420MB	$20/$95
Sony	QIC-WIDE QW3010XLF up to 850MB	$26/$125
Sony	QIC-WIDE QW3080XLF up to 4GB	$33/$160
3M	DC2750/MC3000 (750MB)	$28/$135
EXABYTE	DC2750/MC3000 (750MB)	$30/$145
EXABYTE	MC3000XL (1GB)	$39/$190
3M	MC3000XL (1GB)	$35/$168
3M	MC3000XL Formatted	$40/$190
Sony	QD2120 QIC80 up to250MB	$22/$105
Sony	QD2120 unformatted up to250MB	$19/$90
3M	DC2120 Ximat up 250MB	$17/$79
3M	DC2120XL Ximat up 350MB	$25/$120
Maxell	DC2120 unformatted tapes	$15/$69
Maxell	DC2120 QIC 80 formatted	$18/$85
Maxell	2120 Cleaning Kit	$22/$100
GIGATEK	DC2120 QIC80 up to250MB	$15/$69
GIGATEK	DC2120XL up to350MB	$22/$104

1/4" Data Carts

		Ea./5Pak
Sony	QD6150 - 150MB	$17/$79
Sony	QD6250 - 250 MB	$23/$104
Sony	QD6525 - 525 MB	$29/$140
3M/Maxell	DC6150 - 150MB	$16/$75
3M/Maxell	DC6250 - 250MB	$22/$99
3M/Maxell	DC6525 - 525MB	$28/$135
GIGATEK	DC6150 - 150MB	$14/$65
GIGATEK	DC6250 - 250MB	$19/$90
GIGATEK	DC6525 - 525MB	$24/$109
3M	Magnus 1.2 - 1.2 GB	$45/$215
3M	Magnus 2.0 - 2.0 GB	$59/$285
GIGATEK	DC9120 - 1.2GB	$45/$215
GIGATEK	DC9200 - 2.0GB	$59/$285
Maxell	DC-9135 - 1.3 GB	$49/$235

3.5" Optical Carts

		Ea./5Pack
3M/Ricoh	128MB 512 bytes/sec	$30/$140
Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$48/$265
KOMAG/Philips	230MB 512 bytes/sec	$29/$139
OMD-230HS	230MB Pinnacle Hi Speed Media	$39/$190

5.25" Optical Carts

Maxoptix	1.2G-512b/s or1.3G-1024b/s-Glass	$189
Maxoptix	1.2G-512b/s or1.3G-1024b/s-Poly	$149
HP	1.2G-512b/s or1.3G-1024b/s	$109
OMD1200HS	Pinnacle 1.2G 512b Hi Speed (Universal)	$119
OMD1300HS	Pinnacle 1.3G 1024b Hi Speed	$119

Blank Recordable CDs

		1/5Pk
540MB	63min Compact Disc SONY	$13.59/64
540MB	63min Compact Disc Other	$12.50/60
650MB	74min Compact Disc Kodak	$16.99/$80
650MB	74min Compact Disc Sony	$15.99/$75
650MB	74min Compact Disc Other	$13.99/$68
RCD-74	74min Compact Disc Pinnacle	$19/$90

SCSI ACCESSORIES

EXTERNAL SUBSYSTEM CABLES

Centronics 50 to 50 Pin SCSI-2	$29
Centronics 50 to DB 25-Pin 3ft/6ft	$7/$12
Centronics 50 to Centronics 50 3ft/6ft	$7/$13
Centronics 50 to DB-50 3ft/6ft	$32/$42
Centronics 50 to 68 Pin Fast Wide 3ft/6ft	$49/$55
DB-50 to 50 Pin SCSI-2 3ft	$45
DB-50 to DB-50 3ft	$39.99
50 Pin SCSI-2 to SCSI-2 3ft/6ft	$33/$45
68 Pin Wide to Wide 3ft/6ft	$59/$64

INTERNAL RIBBON CABLES

50-Pin SCSI 2/3/4 device	$5/$9/$12
50-Pin SCSI 5/6/7 device	$14/$18/$22
68-Pin SCSI Fast Wide 3 Connector 2 device	$38
68-Pin SCSI Fast Wide 5 Connector 4 device	$49
68-Pin SCSI Fast Wide 8 Connector 7 device	$98

Other Accessories ....

Centronics 50 Terminator Single/Dual End	$9/$13
Centronics 50 Terminator ACTIVE w/LED	$19
50 Pin SCSI-2 Terminator Passive/Active	$49/$79
Wide 68 Pin ACTIVE Terminator	$39
SCSI-2(M) to SCSI-1(F) Gender Changer	$39

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CASES

- ♦ High Quality Shielded FCC,UL Approved
- ♦ Universal Auto Voltage Switching 110/240V
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- ♦ Designed to fit HD's, CD's, Removable, Optical...

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1.2MB	TEAC 5.25 "	$44
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1.2/1.44	TEAC Dual	$89
1.2MB	NEC 5.25"	$42
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High Performance 2X Speed Recorder w/1MB Cache

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w/Toast Pro for Macintosh	$1449

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w/Toast Pro for Macintosh	$2919

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4PLEX & 6PLEX ***Lightning Fast*** **CD-ROMs**

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46CHMAC	4-X, 1MB Cache Mac	$499
PX-63CS	6-X,145ms,900kb,256K Cache	$444/$494

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XV17	17" 1280x1024 .28dpi up to 100Hz	$776
XE17	17" 1024x768 .28dpi	$1025
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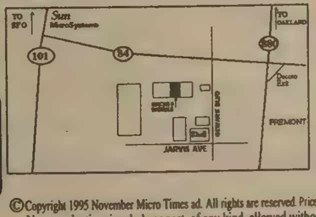

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New Products...

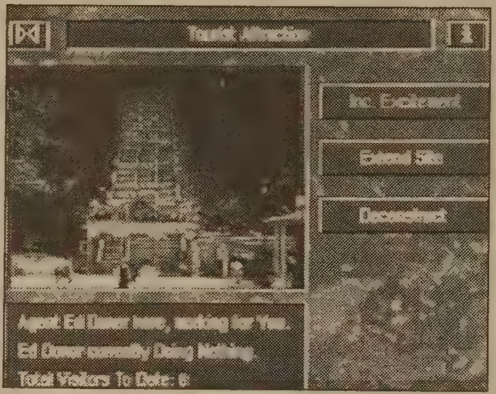
continued from page 144

The Holiday Activity Fun Pack, a new Macintosh/Windows hybrid CD-ROM packed full of holiday fun, is designed for children ages three and up. Kids will be introduced to Blizzard the Snowman, a wild and wacky snowman who loves to play games. The Masterpiece Paintbox contains more than twenty holiday ClickArt images that kids can paint on-screen or print out to make coloring book pages. The Make a Snowman's Face game lets kids use their talents to create over one thousand snowman fun faces using household items, such as lightbulbs, Life Savers, and more. Unwrap the Presents features beautiful holiday gifts and challenges children's memory and matching skills by having them match pictures and sounds. The Decorate the Tree game is a replayable game that uses ornaments as stamps. ($14.95) T/Maker Co., 1390 Villa St., Mountain View, CA 94041. 1-800-9-TMAKER.

The Ultimate Einstein

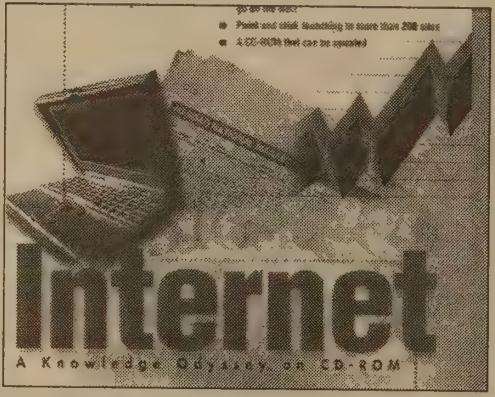
Based on the life and work of the world-renowned physicist, *The Ultimate Einstein* features an interactive history of Einstein's life, with full-motion video and audio clips; a virtual encounter in which an actor's virtual reality simulation of Einstein responds to queries on a variety of subjects; a simulation playhouse that lets users participate in a series of experiments to demonstrate Einstein's theories; and a fully searchable library, including the complete text of Ronald W. Clark's biography *Einstein: The Life and Times*. It also features links to related World Wide Web sites. This CD-ROM is ideal for Einstein fans and scientists twelve years and older. Macintosh and PC versions available. ($49.95) Byron Preiss Multimedia Company, Inc., 24 W. 25th St., New York, NY 10010. (212)989-6252.

SimIsle



SimIsle combines video and sound effects with simulation technology to immerse players in one of the world's most exotic locales—a rainforest. With aid from a panel of special agents, SimIsle challenges players to manage a body of tropical islands, each abundant with missions and scenarios that must be successfully completed for the island's economic and ecological survival. The tropical surroundings camouflage the dilemmas players will face as the game unfolds—from oil tanker leaks and fighting illegal drug producers to building wildlife preserves and fighting ivory poachers. Lush video footage is provided by *Network Earth*, TBS's award-winning environmental series produced by Turner Original Productions. ($39.95, CD-ROM for DOS) Maxis Corp., 2 Theatre Square, Orinda, CA 94563. 1-800-526-2947.

The Internet: A Knowledge Odyssey



This Windows CD-ROM is an educational tool and reference source for new and experienced users of the Internet, complete with access software and multimedia simulation of how to best use popular sites. Ten tours explain the history, technology, and future of the Internet, and various access methods and how to use them—including the Web, FTP, and terminal emulation. Different editions—such as the Basic Edition, For the Home, For Business, etc.—offer cross-sections of site and topical information tailored to each audience. Each edition also includes a seven-day trial package of the Instant InterRamp, featuring Chameleon access software, for people who have not yet accessed the Internet. (Basic Edition, $49.95; Home Edition, $39.95; Business Edition, $59.95) MindQ Publishing, Inc., 8375 Leesburg Pike, Vienna, CA 22182. (703)938-3579.

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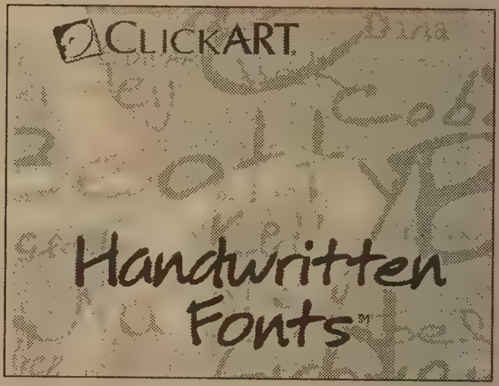

ClickArt Handwritten Fonts contains three hundred unique personalized fonts crafted using actual handwriting samples. As TrueType fonts they are fully scalable without giving you "jaggies" plus do not require a PostScript-capable printer. This font package allows you to use the speed and convience of your computer and still take advantage of the warmth and appeal of personally written words. You can find the right font to fit any mood or message and you can even use your spell checker. A special offer is included so that anyone can create their own authentic Handwritten Font. ($39.95, in Macintosh, Windows, and DOS) T/Maker Co., 1390 Villa St., Mountain View, CA 94041. (415)962-0195. Email *clickart_info@tmaker.com*.

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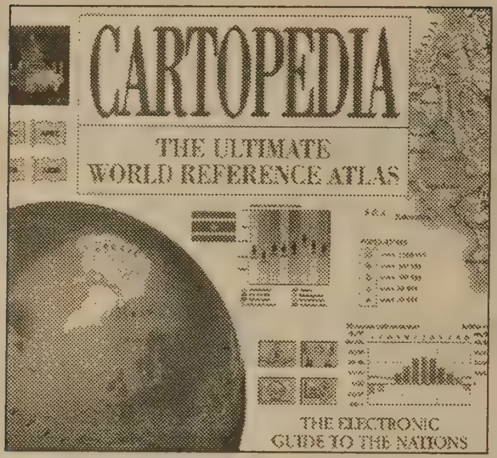
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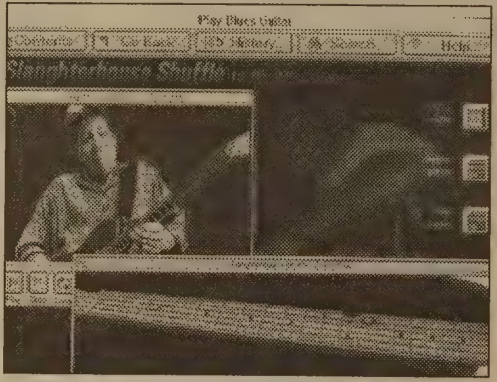
words, over nine thousand screens and pop-up windows, more than six hundred "zoomable" computer-generated maps, and over five hundred color photographs and video sequences. The *Cartopedia* gazetteer links place names to the maps to make finding specific locations quick and easy. The CD can be updated using DK Cartography's continuously updated database of place names and digitally created maps based on the latest satellite and geophysical survey data available. ($69.95; CD-ROM for Windows available, Mac version available spring 1996) DK Multimedia, Inc., 95 Madison Ave., New York, NY 10016. (212)213-4800, 1-800-DKMM-575.

Leather & Fabric And Marble & Granite 2 Texture Collections

Artbeats has introduced two additions to its collection of royalty-free CD-ROM stock image titles. Leather & Fabric is a four CD-ROM set containing a library of digitized textiles designed for high-end prepress, multimedia, video, and 3-D rendering. A wide variety of fine leathers and fabrics are provided, including antelope, cowhide, shark, python, sheepskin, linen, satin, silk, and velvet. Marble & Granite (four CD-ROM set) contains exotic minerals like meteorite, petrified wood, malachite, blue spectra, and Mexican crazy lace. The materials are photographed on 4" x 5" transparencies, then drum-scanned for optical printing at 200lpi (lines per inch) at US letter size with a full bleed. Many other sizes and formats are also included. ($349, Macintosh and Windows) Artbeats Software, Inc., 2611 S. Myrtle Rd., Myrtle Creek, OR 97457. (503)863-4429.

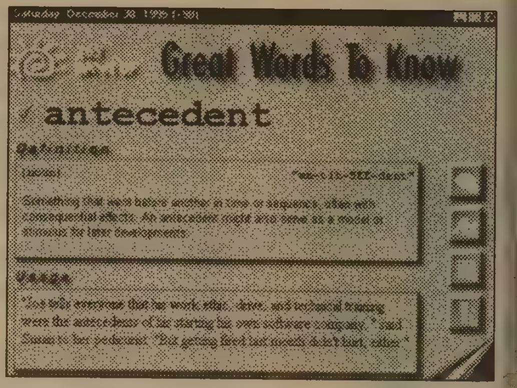
Play Blues Guitar



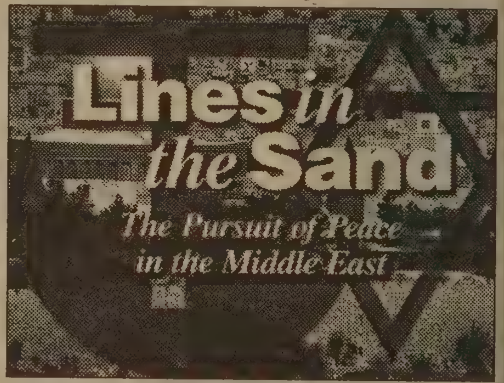
This CD-ROM for MPC featuring master blues guitarist Keith Wyatt was created with the goal of allowing a guitarist to learn music by playing music. It contains nearly 250 text, video, animation, and MIDI-enhanced lessons, including over one hundred minutes of video and animation. The CD features four songs together with lessons for playing the solo and rhythm guitar parts for each song. Blues guitar solo and rhythm techniques lessons as well as an animated music glossary are linked to the songs and lessons, so that the guitarist learns technique and theory while playing the songs. Play Blues Guitar utilizes the power of MIDI with an animated fretboard that displays the finger positions used to play the guitar licks that appear in the songs. With features such as tempo control and looping, the fretboard helps guitarists to play at their own pace and more easily learn to play blues guitar. ($53.95) Play Music, Inc., 11320 Chandler Blvd., Suite G, North Hollywood, CA 91601. 1-800-887-PLAY.

DigiDay Calendar

The first DigiDay calendar program from Vision X Software is 365 Days of Great Words to Know. This CD-ROM presents you with a new "power word" each day. You can optionally direct the program to pronounce the word. It also offers several ways of reinforcing the meaning of the words. You can direct the program to quiz you one or more times throughout the day on previous days' words. You can set the program's screen saver to provide a colorful display of the most difficult words. Finally, with the help of twelve fictional characters, each with their own quirky personality, you can see the words used in sample sentences. It also provides a reminder and to-do system for events such as birthdays and anniversaries, an alarm system that you can use for appointments, and a clock that you can keep visible no matter what other programs you have running. The DigiDay calendar runs for a full year, no matter when you install it. ($12.99) Vision X Software, Inc., 761 Sproul Rd., #211, Springfield, PA 19064. (610)892-9766.



Lines In The Sand: The Pursuit Of Peace In The Middle East



Using CD-ROM and the Internet as the storytelling tools, a veteran foreign correspondent helps unravel some of the mysteries of the Middle East. This Mac/Win CD combines video, graphics, and a vast library of text on the Middle East, allowing users to explore issues and ideas in great detail. Its companion Web site features

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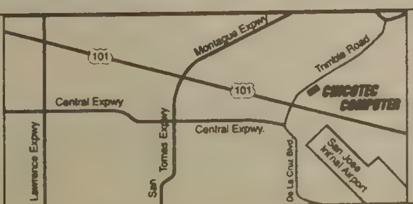

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online discussion groups on Middle East topics, plus regular updates to the information on the CD-ROM. Viewpoints are presented from activists, politicians, and opinion leaders in the Arab and Israeli camps, both radical and moderate. Context is provided with historical timelines and extensive background articles and documents. ($49.95; volume and educational discounts are available) Tiger Media, Inc., 1040 7th Ave. SW, #140, Calgary, AB, Canada T2P 3G9. (403)531-2920. URL: *http://www.tiger.ab.ca/mideast/* .

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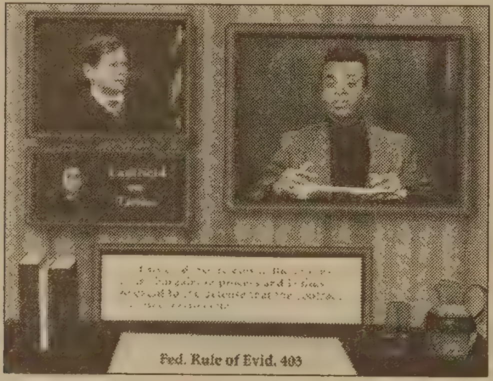
The Interactive Courtroom, a unique legal skills training program, gives users real-time experience in witness examinations and client interviews. The CD features a panel of distinguished legal experts, such as well-known attorney Howard Weitzman, federal defender Terence MacCarthy, former federal judge Barbara Caulfield, and skills trainer Tim Hallahan. These legal mentors are available for context-specific video commentary on tactics and techniques throughout the program. The Interactive Courtroom includes hypertext links to pertinent provisions of the Federal Rules of Evidence, as well as to rules and statutes for twenty-two states. It is approved for MCLE credit in many states. ($295, for Macintosh and Windows) CLE Group, Inc., 695 Oak Grove Ave., #2C, Menlo Park, CA 94025. (415)324-1827, 1-800-373-1829.



The Electronic Giecks' Engineering Formulas

First published in 1967 and now in its sixth edition, *Giecks' Engineering Formulas* is an invaluable resource of fundamental formulas and data for engineers. With a fully interactive interface powered by MathSoft, Inc.'s MathCad engine, the Windows-based *Electronic Giecks'* is a complete engineering reference that solves the most time-consuming technical calculations instantly. Indispensable for engineers, engineering students, and other professionals, the *Electronic Giecks'* provides powerful navigational tools for full-text searching. It allows access to information through multiple paths, including the table of contents, index, and hypertext linking. In addition, interactive math allows the user to perform calculations and test results with different input variables. (CD-ROM version, $79.95; diskette version, $89.95; CD-ROM/book package, $99.95) McGraw-Hill, Inc., 11 W. 19th St., New York, NY 10011.

A Chilean Affair/Une Aventure Chilienne

A Chilean Affair
Love and revolution in Pinochet's Chile
Chili, mars 1987
Une Aventure Chilienne

Until General Pinochet overthrew the democratically elected government of President Allende, Chile enjoyed the longest-reigning democracy in South America. *A Chilean Affair* is the story of John Cassagne, a journalist assigned to cover Pope John Paul II's visit to Chile in 1987. His story is told in black-and-white photographs and narration, in both French and English. As you listen to his adventure you will experience the different mechanisms of the Pinochet dictatorship. Cassagne shares his emotions as he falls in love with a country fighting against repression. For those interested in Latin American history, this CD provides the details of one of the events that served as a major catalyst for change leading to the restoration of democracy in Chile. ($39.95 for Macintosh and Windows) D&D Computers, Inc., 1405 SW 107 Ave., Suite 301-D, Miami, FL 33174. 1-800-816-6848.

Man Ray

Man Ray
Fautographe

Man Ray (1890–1976) was a pioneering painter and photographer in the Dada, surrealist, and abstract art movements of the 1920s and 1930s. After founding the New York Dada movement, Ray moved (1921) to Paris, where he became portrait photographer to the intellectual avant-garde. At the same time he experimented with camera-less photograhic techniques. His "rayograph" was made by placing objects on sensitized paper, which was then exposed to light. This new CD contains over six hundred photographs of the famous surrealist artist. The portfolio contains a selection of his principal photographs that cover a multitude of facets, including many of his rayographs. Also included are: a complete biography, examples of his work broken down into four different time periods, and a thirty-minute commentary by Man Ray himself (in French) with explanations and interviews. ($39.95 for Macintosh and Windows; photos are in Kodak Photo CD format) D&D Computers, Inc., 1405 SW 107 Ave., Suite 301-D, Miami, FL 33174. 1-800-816-6848.

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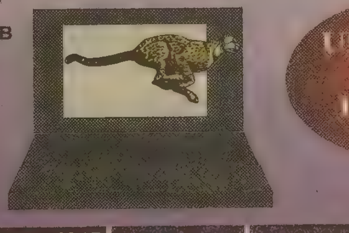

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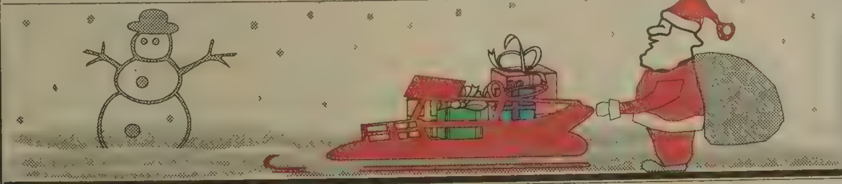

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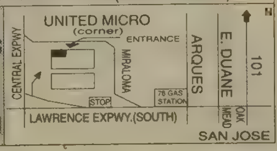

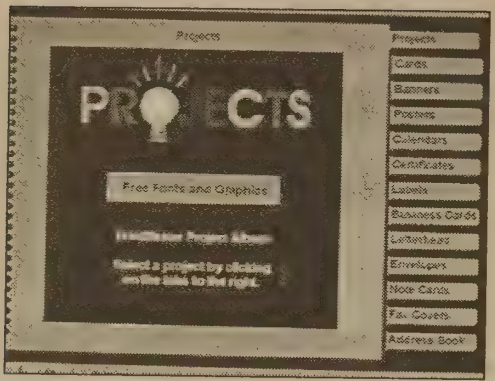
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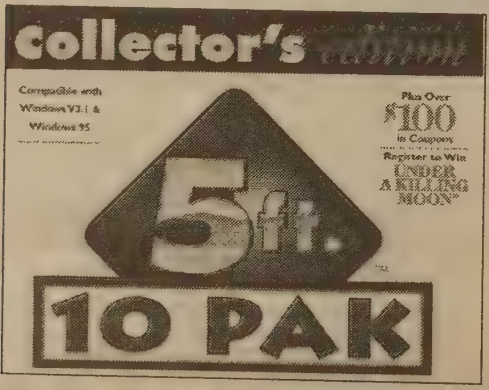
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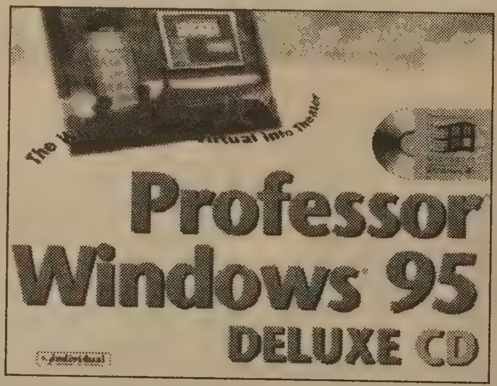
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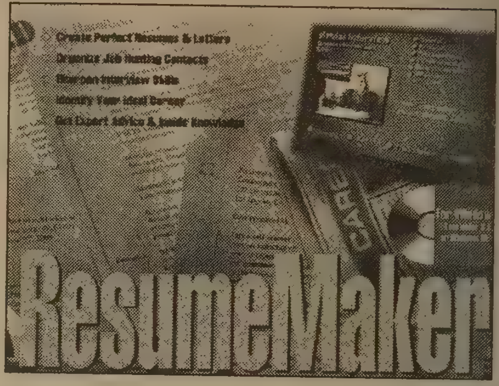
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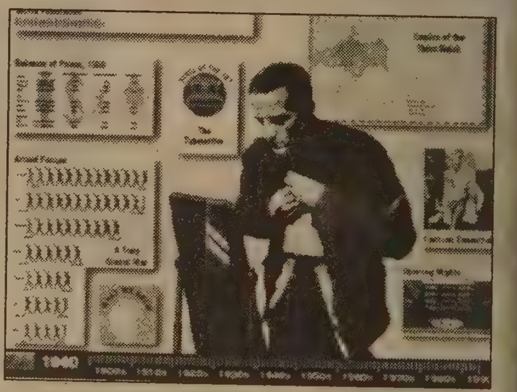

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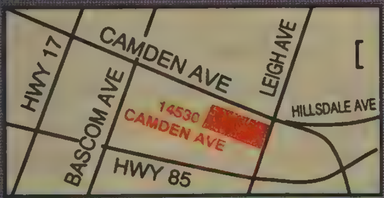

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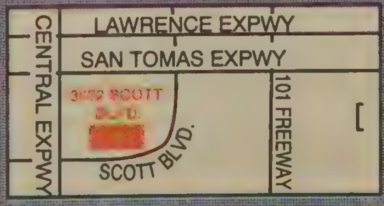

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James Earl Jones. With more than fifty-two thousand articles; twenty-five hundred images, charts, maps, and graphs; eight million words; 120 minutes of narration; sixty-five thousand hypertext links; and video documentaries, *Our Times* is an ideal reference resource for students, teachers, history buffs, and families curious about the world they live in. For added breadth and for information on topics within and beyond the twentieth century, the CD-ROM also includes the complete *Columbia Encyclopedia, Fifth Edition*. ($69.95 for Mac/Windows/MPC hybrid) Vicarious, Inc., Three Lagoon Dr., Suite 300, Redwood City, CA 94065. (415)610-8300.

ClipArt CRAZE

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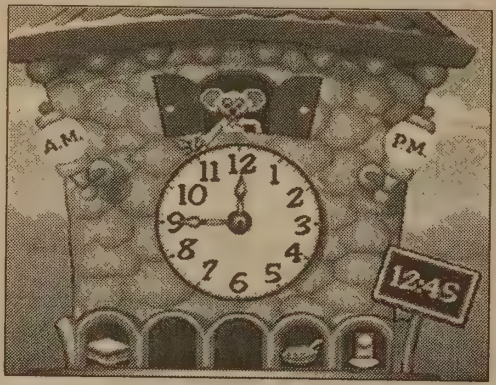
ClipArt CRAZE is a set of two dual-platform CDs containing more than thirty-four hundred royalty-free color and black-and-white clip art files arranged in twenty categories including Maps, Religion, Travel, Signs, Food, Holidays, Flowers, and others. There is a clear and comprehensive menu program that includes a built-in thumbnail viewer for easy file selection. The menu also includes a category listing with easy-to-understand file names, a Launch Paintbrush feature containing an editing tool box and color palette, a Copy feature that directly copies the file onto the hard drive, and the file size display. Every file is available in BMP and PCX formats for the PC in addition to TIFF file formats for the Mac. ($39) Accurate Research, Inc., 1500 Wyatt Dr., Suite #10, Santa Clara, CA 95054. (408)748-9988.

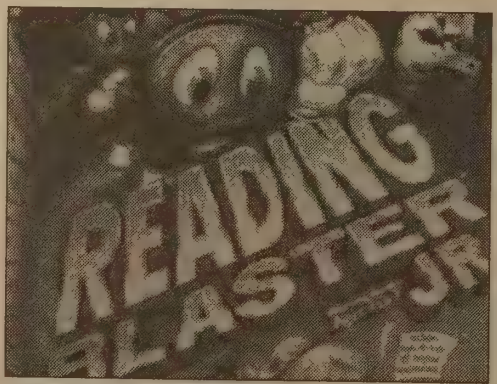
Kids Software

Fisher-Price Ready For School

Fisher-Price Ready for School, new multimedia software for children ages three to six inspired by Fisher-Price's "Talking Smart Street" toy, prepares youngsters for their first school experience with ten fun-filled games. Each uses funny characters, whimsical animations, and original music to help children build early-learning skills such as telling time; identifying the seasons; recognizing letters; learning about safety and manners; and identifying numbers, shapes, and colors. The set includes two Windows-based CD-ROMs and four books that allow children to practice the skills presented in the software in different ways, thereby furthering the learning process. ($50) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0660.

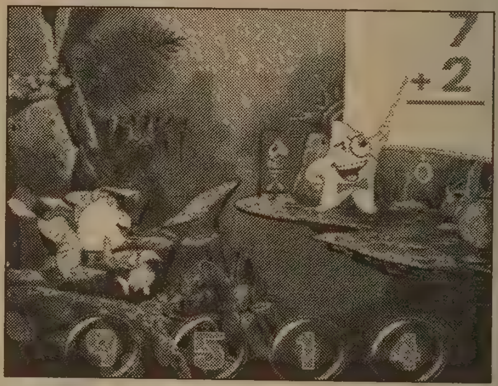


Reading Blaster Junior



Designed specifically for beginner readers (ages four to seven), Reading Blaster Junior builds the skills needed to help children grow into independent readers. During the program's sequential activities, children sound out words, build words phonetically, recognize important words, and build comprehensive skills. The Blaster characters—Blasternaut, G.C. (the Galactic Commander), and Spot—guide children through five progressively challenging units. As children complete the program's five units, they move up through the ranks from a Phonic Ranger to a Big Time Galactic Reader. The program provides two modes of play, so parents can choose the learning style best suited for their children. The directed sequence mode allows children to build their reading skills progressively, while the free-play mode allows children to learn through exploration and discovery. ($35) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0660.

Putt-Putt Saves The Zoo



Designed for children ages three through eight, *Putt-Putt Saves the Zoo* contains more than twenty-five thousand frames of hand-drawn animation. The interactive adventure begins when Putt-Putt and his loyal dog, Pep, offer to help Outback Al, the zookeeper, get ready for the grand opening of the Cartown Zoo. There is much to do. The bridge is out, "zoo chow" is running low, and six baby animals are missing. From Arcticland to Grasslands and Jungle Land it's up to Putt-Putt to save them all. Along the way, children will also discover rhyming monkeys, joke-telling toucans, more than five hundred "secret" click points, and thirty different locations.

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Kids can also print the color pictures they take with Putt-Putt's camera, explore the zoo, or play minigames. ($39.95; CD-ROM for Windows 95 and 3.1, and for Macintosh) Humongous Entertainment, Inc., 16932 Woodinville-Redmond Rd. NE, Woodinville, WA 98072. (206)486-9258.

Making Music

Making Music, the second CD-ROM by composer Morton Subonick, was conceived as a musical composition space for children. It presents the components of music visually and aurally in an intuitive environment. Intended for children ages five and older, Making Music lets them experience what composing music is like before embarking on a formal music education. Without any training or vocabulary (there's no text at all), kids can experiment with the fundamental components of music: instrumentation, scale, and rhythm. They can mess around until they are satisfied, just as real composers do in a studio. And along the way, they learn about how the language of music works. ($39.95 for Macintosh and Windows) The Voyager Co., 378 Broadway, Suite 406, New York, NY 10012. (212)431-5199. URL: *http://www.voyagerco.com/*.

Mavis Beacon Teaches Typing! For Kids

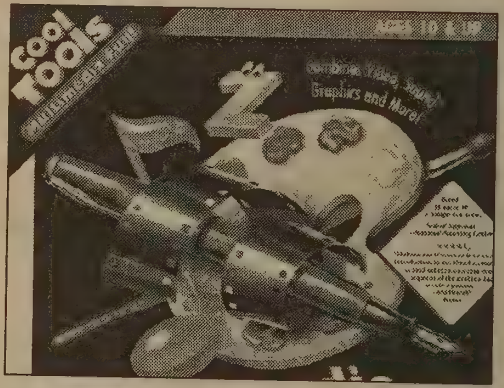
Designed for children ages four to seven, Mavis Beacon Teaches Typing! for Kids stars a spunky young Mavis and her dog, Dizzy, who take children on an adventure to Grandma and Grandpa's house, where they learn letter recognition, basic typing skills, and keyboarding skills. The program uses digitized speech rather than text commands to accommodate beginning readers and reinforce the recognition of letters and sounds. Special attention is also paid to little hands and motor skills of growing children. It allows for multiple users and includes three levels to keep kids challenged as their skills grow. A special KidLock keeps children from accessing other files on the computer. Additional features include big, easy-to-read letters, original music, and easily accessible help and exit buttons. ($30, CD-ROM for Macintosh and PC) Mindscape, Inc., 88 Rowland Way, Novato, CA 94945. (415)897-9900.

Fisher-Price Sing-Alongs—Barnyard Rhythms And Moos

Fisher-Price
MULTIMEDIA

In Sing-Alongs, children ages three to seven explore this familiar farm with animal characters, listen to and sing along with animated music videos featuring twenty original and classic songs, and build early reading skills. Three musical games introduce youngsters to the farm: Music Videos, Click-and-Explore, and Sing-Along Songs. To help parents, the CD includes illustrated "Parents Tips," which explain the software's development philosophy, offer advice from education experts, and provide insights on how music and rhythm advance a child's linguistic and motor skills. The tips also provide suggestions for parental involvement with additional, noncomputer activities to enhance what their children have learned. ($30, CD-ROM for Windows and Macintosh; lab packs for schools are available through Davidson Educational Resources for $149.95) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. 1-800-545-7677.

The Multimedia Workshop



The Multimedia Workshop is a tool for creating exciting multimedia presentations and published documents using video, photographs, graphics, clip art, sound effects, music, and text. Using the software's writing, video, and paint workshops, children ages ten and older can create spectacular presentations such as an on-screen magazine illustrated with video and music, a video yearbook, or a graphical book report complete with photos and text. A paint program is also available to retouch images or to create original art. ($50, CD-ROM for Windows or Macintosh, floppy disks for Macintosh) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. 1-800-545-7677.

continued onpage 170

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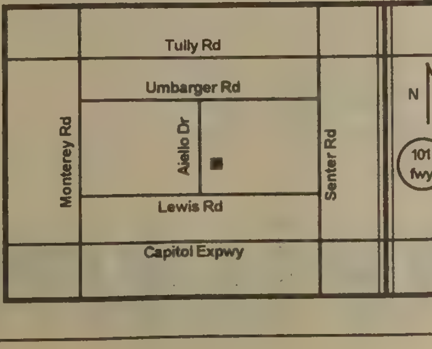

COME AND VISIT OUR SHOWROOM !

One block away from intersection of Monterey and Lewis Rd

2870 AIELLO DRIVE
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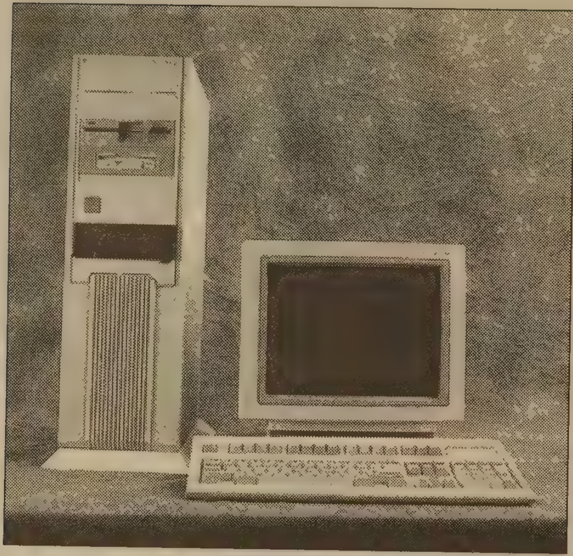
Tel: (408) 226-7425

Fax: (408) 226-1025 / email: CompNetUSA@aol.com
Bus Hrs: Mon-Fri (10am-6pm), Sat-Sun (12pm-5pm)

ACCESS
COMPUTER TECHNOLOGIES

intel inside
pentium™ PROCESSOR



Pentium is a registered trademark of Intel Corporation.

Intel 100MHz Pentium PCI

- Intel Pentium PCI Motherboard w/ 100MHz processor
- 8MB RAM expandable to 128MB
- 256K Cache memory
- Conner 850MB IDE hard drive
- 3.5" 1.44MB Floppy Drive
- Trident PCI 1MB graphic card
- Mini tower case w/ power supply
- 101-key enhanced keyboard
- Monitor not included
- 1 year parts and labor warranty

NextStep 3.1
$49.95
SSN001

$1299

APC SU700RM Smart UPS Rack Mount UPS700RM $369

Pentium® 133MHz Systems

- Intel Pentium PCI Motherboard w/ 133MB MHz processor
- WDC 1GB IDE hard drive
- 3.5" 1.44MB floppy drive
- 8MB RAM expandable to 128MB
- Trident PCI 1MB graphic card
- Mini tower case w/ power supply
- 101 key enhanced keyboard
- Monitor not included
- 1 year parts and labor warranty

Windows 95 upgrade
$49.95
SSW95U

$1599

Intel Pentium Motherboards

Zappa 75-133MHz

- 3 PCI, 4 ISA expansion slots
- 256KB Cache memory
- National PC87306 I/O controller
- 82437FX Triton System controller

AMI5100 **$229**

Endeavor 75-133MHz

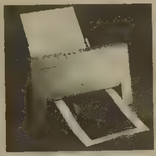
- 4 PCI, 3 ISA expansion slots
- Intel Triton® Chipset
- SoundBlaster 16 VIBRA Sound Card
- National PC87306 I/O controller

AMI5100X **$269**

Merry Christmas

ACCESS
COMPUTER TECHNOLOGIES

Canon



BJC-4000 Color Ink Jet

- 5ppm
- 420x360dpi
- 16.7M colors
- 2 yr. warranty

$329

BJC-210 Color Ink Jet

- 4ppm (B/W)
- 720x360dpi
- 300+ Truetype fonts
- 2 year warranty

New!

$269

BJC-610 Color Ink Jet

- 3ppm (B/W)
- 720x720dpi
- 1.3ppm (color)
- 2 year warranty

New!

$549

EPSON

Stylus II
Color Printer

Windows & Mac!

- 4 Color (CMYK) drop-on-demand piezoelectric
- 720x720 dpi
- 60 nozzles color head
- Up to 4ppm test printing
- 2 year limited warranty

Free software offer!

PEI6100I **$449**

Stylus IIs PEI60001 $289

Stylus Pro Optional Postscript PEI64001 $799

HEWLETT PACKARD

ScanJet 4C
Color Scanner

New!

- 600dpi, 2400dpi enhanced
- 30-bit color scanning
- Software included

PMH4C **$899**

OfficeJet
Printer, Fax, Copier

3 in 1 Multifunctional

- 3ppm
- 600x300dpi resolution
- 20-page sheet feeder
- 24-page memory
- 50 sec/page copying speed

HP2890A **$549**

HEWLETT PACKARD

SureStore CD-Writer 4020
Internal SCSI-2 650MB
5.25" Recordable CD Drive

- 650MB, 74min audio recording
- <390ms access time
- Write speed: 1x (150KB/sec)
  2x (300KB/sec)
- Read speed: 1x, 2x, 4x (300KB/sec)
- 1MB recorder buffer

Complete software package

NEW!

HDH4020 **$999**

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ACCESS

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Video Cards

ATI

Pro Turbo 2MB VRAM PCI, ADN102P	$ 249.00
Pro Turbo 4MB VRAM PCI, ADN104P	399.00

GXe64 Pro 4MB VRAM PCI, ADN94P	499.00
Imagine 1600x1200 4MB PCI, ADN9128P	559.00

DIAMOND MULTIMEDIA

Stealth 64 2MB VRAM PCI, ADN432P	249.00
Stealth 64 4MB DRAM PCI, ADN434P	399.00

NANAO

FlexScan T2•20

- 29" Color CRT
- 0.30mm dot pitch
- 1600x1200 @ 66Hz
- Windows 95 Ready
- 3 year limited warranty

$1899

Nanao

F2•17 17", .28, 1280 @ 66Hz	$ 899.00
F2•17EX 17", .28, 1600 @ 66Hz	999.00
Artmedia TG1882, 17", .25, 1600 (17se)	929.00
KFC MTK1428, 14", 1024, .28	199.00
KFC MTK1511, 15", 1024, .28	329.00
Proton 1449A, 14", 1024, .28, Built-in speakers	249.00
Proton 1560, 15", 1280, .28	329.00

NEC

MultiSync XV17

17" Color Display

- 17" SVGA monitor
- .28mm dot pitch
- 1280x1024 @60Hz
- Energy Star compliant
- 3 year limited warranty

in-stock!

$729

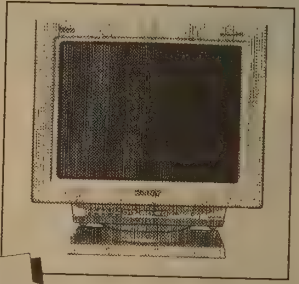
MultiSync XE17

- 17" SVGA monitor
- 0.28mm dot pitch
- 1024x768 @ 76Hz

MTNXG17 **$969**

MultiSync XP21 1600x1200 @ 70Hz, .28	$2099.00

SONY



Multiscan 17se Color Display

- 17" Trinitron CRT
- 16.1" Viewable area
- 25mm dot pitch
- 1600x1200 @ 60Hz
- 3 year warranty

in-stock!

MTS17SE **$1040**

MultiScan 17sf

- 17" Trinitron CRT
- 16.1" Viewable area
- 1280x1024 @ 60Hz

MTS17SF **$869**

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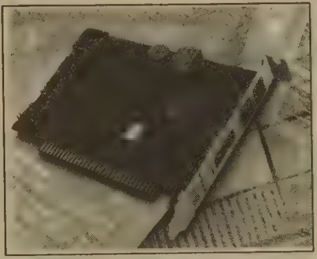
USRobotics
The Intelligent Choice in Data Communications



V.34 28.8

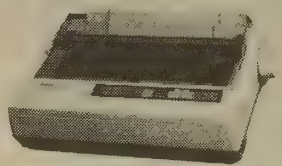
Internal Sportster Fax Modem

ADV2881 **$175**

Si	14.4, Int/Ext	$ 49/59.00
V.34	14.4, Int/Ext	99/119.00
28.8	External	199.00
28.8	External w/ Personal Voice Mail	229.00

Best Data	14.4 Internal Fax Modem ADB144I	69.00
Adtech	14.4 Internal Fax Modem ADC1414H	89.00
Multitech	14.4 External Fax Modem ADC1932	99.00

Panasonic
Office Automation OA



Dot Matrix Printer Sale

- 24-pin letter quality
- 2 year limited warranty
- 2nd inventory printer

6' Molded Printer Cable
79¢ XCA006

SALE!

KX-P2023	$139.00
KX-P2123	149.00
KX-P2130	159.00
KX-P3626	289.00

CPU

intel Pentium Processor

75MHz	ICC575	$ 169.00
90MHz	ICC590	289.00
100MHz	ICC5100	299.00
120MHz	ICC5120	379.00
133MHz	ICC133	539.00

Memory

4MB	1MB • 32	72 pin	ICS0432	$129.00
8MB	2MB • 32	72 pin	ICS0832	249.00
16MB	4MB • 32	72 pin	ICS1632	499.00

Hard Drives

Seagate 420MB IDE, 14ms, HDS3491A	$ 149.00
Quantum 1.08GB, IDE, 12ms, HDQ1080	209.00

WESTERN DIGITAL

540MB, 11ms, HDW2540	164.00
850MB, 10ms, HDW2850	199.00
1.08GB, HDW2100	219.00
1.2GB, HDW3120	269.00

Maxtor

540MB, IDE, 12ms, 7540AV	169.00
850MB, IDE, 12ms, 7850AV	183.00
1.05GB, IDE, 12ms, 71050A	229.00
1.2GB, IDE, 12ms, 71260	259.00
1.6GB, IDE, 12ms, 71626A	309.00

CONNER

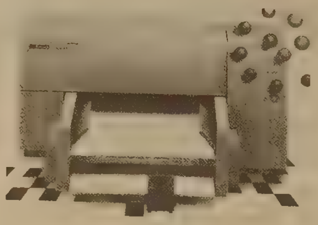
850MB, IDE, 12ms, HDC850A	184.00
1.2GB, IDE, 12ms, HDC12751A	259.00

Happy Holidays

ACCESS

COMPUTER TECHNOLOGIES

HEWLETT PACKARD



DeskJet 855C

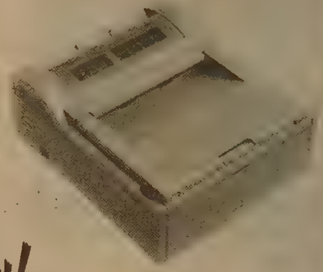
Color Ink Jet

- Up to 7ppm (B/W)
- Up to 3ppm (color)
- Dual I/O for PC or Mac
- 26 scalable fonts

PTA855C **$529**

Jet Direct	Ethernet Adaptor TP	HP2550A $ 279.00
DeskJet 600C/660C	Color Ink Jet	289/369.00
DeskJet 1600C	600dpi color printer	1399.00
LaserJet 4M+	12ppm, 600dpi, 6MB	1869.00
LaserJet 4MV	16ppm, 600 dpi, 12MB	2699.00
LaserJet 4V	16ppm, 600dpi, 4MB	1899.00
LaserJet 5L	600dpi	479.00
LaserJet 5P	600dpi, 2MB	829.00
LaserJet 5MP	Mac compatible	969.00
LaserJet 4siMX, 17ppm, 16MB		3699.00

OKIDATA



OL-600e Laser

- 6PPM printing speed
- 600dpi class
- 1MB exp to 18MB
- 44 bitmap fonts
- 5 year printhead warranty

New!

$399

OL-400e Laser

- 4PPM printing speed
- 300dpi class
- 512K RAM exp to 4.5MB
- 44 bitmap fonts
- 5 year printhead warranty

Lower Price!

$349

EPSON

ActionLaser 1500

Laser Printer

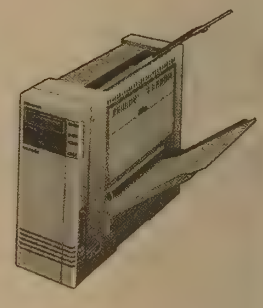
Lower Price!

- 6ppm printing speed
- 300dpi resolution
- 1MB RAM exp to 5MB
- 27 built-in fonts
- 150 sheet paper tray
- Built-in printer sharing
- Optional Postscript upgrade
- Limited 2 year warranty

PTE1500 **$449**

AP5000+	PTE5000+ B Stock	$169.00

Panasonic
Office Automation OA



KX-P5400

Postscript Laser Printer

- 4ppm LED Page printer
- Adobe Postscript Level 2
- 2MB RAM exp to 4MB
- 100-sheet multipurpose tray
- 17 Adobe fonts
- 28 internal bitmap fonts
- 1 year w/ 5 year printhead warranty

Mac Printer Cable 99¢ XMM881

PTP5400 **$399**

KX-P4400	PTP4400	$ 299.00
KX-P1150	PTP1150	139.00

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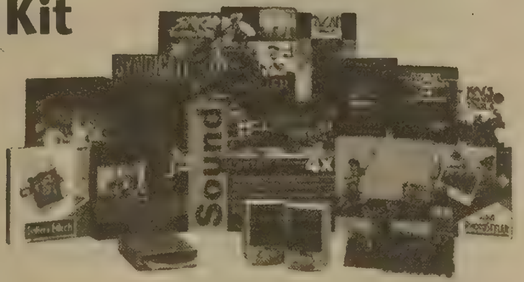
CREATIVE
CREATIVE LABS, INC.

SoundBlaster
Discovery CD 4X Multimedia Kit



- SoundBlaster 16 pop sound card
- 4X CD ROM Drive
- Microphone & speakers
- 15 top selling CD Titles

ADS125 **$339**

SoundBlaster
16 Value Edition Sound Card

- 16-bit stereo sampling & playback
- Advanced 20-voice synthesizer
- MIDI interface
- Power amplifier

ADS115 **$82.95**

SoundBlaster 16 VIBRA	ADS115T	**$79.00**
SoundBlaster 16 MCD ASP	ADS114AT	**99.95**
SoundBlaster 32 IDE	ADS118	**149.95**
SoundBlaster AWE32	ADS116	**249.00**

NEC

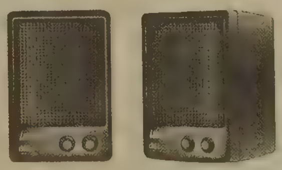
AudioTower Speaker

- 3 1/4" shielded driver
- 8 watt per channel
- Built-in amplifier

ASN001 **$69**

Labtec

SS-100
Amplified Stereo Speakers



- Deluxe bass & treble booster
- Individual volume control
- External DC jack

ASL100 **$8.00**

CD-ROM DRIVES

Mitsumi 4X IDE	HDM400	$119.00
SONY 4X IDE	HDS76E	149.00
TOSHIBA 4X IDE	HDT5302	139.00
TOSHIBA 6X IDE	HDT3701I	329.00
TEAC 6X IDE	HDT56E	219.00
NEC 6Xi IDE SCSI	HDN502	469.00
NEC 6Xi SCSI OEM	HDN512	329.00
NEC 4Xe External SCSI	HDN601	448.00
6X CD ROM Upgrade Kit w/ Sound card	ADS260	349.00
Diamond Multimedia 8X Kit	ADS320	549.00
Diamond Multimedia 800 Kit	ADS330	349.00

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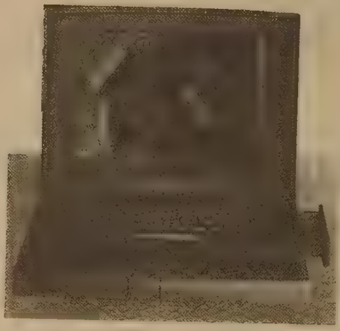
EVEREX
EVER for EXcellence®



Pentium Notebook

StepNote P90

- Intel Pentium 90MHz processor
- 8MB RAM expandable to 40MB
- 1MB Video RAM
- 540MB hard drive
- 10.4" TFT active color display
- Multimedia ready

New!

intel inside pentium™ PROCESSOR

Other Models Available!

NBV90AX **$2989**

Keyboards

Microsoft Natural	PKB001	$59.00
Antec Spill-Resistant	PKB055	10.99
Keytronic Protouch	PKB095	24.00
Keytronic Eurodesign	PKB099	28.00
Focus 2001 w/ Dust Cover	PKB2001	35.00

Accessories

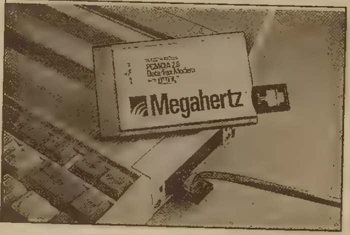
Cleaning Kits

5 1/4" Disk Cleaning Kit	XSP005	$2.99
3 1/2"/5 1/4" KB, FD, Printer, Screen	XSP006/XSP007	3.99/4.99

Surge Protector by Curtis

SP2200 8 outlets, 420 joules	XSP2200	$12.99
SP3200 6 outlets, 2 phone jacks	XSP3200	16.99
SP4000 4 outlets, 2 phone, 2 coaxial	XSP4000	19.99
SP5000 8 outlets, 2 phone, 980 joules	XSP5000	38.95

Megahertz



Buy Now, Buy More Later!

*$25 Gift Certificate**

XJack 2288
PCMCIA Fax Modem

- 28,800/28,800 bps PCMCIA fax modem
- DOS, WIN software
- 5 year warranty

Holiday Special!

** $25 gift certificate to ACCESS with any Megahertz modem purchase (mail-in) thru 1/31/96*

ADC2288X **$259**

Tape Back-Ups

Colorado DJ-35C 350MB Int.	HTC35C	$ 109.00
Colorado DJ-50 1.4GB Int.	HTC50	239.00

Network

Intel ExtherExpress Pro/100 Adapter	NII8465	159.00

Software

MS Works CD-ROM	SSK037C	39.99
MS Money 3.5" Disk	SSM031	9.99
NextStep 3.1 for 486 & Pentium	SSN001	49.95

Printers

Brother MFC-4000ML 3-in-1 printer	PTB4000	799.00

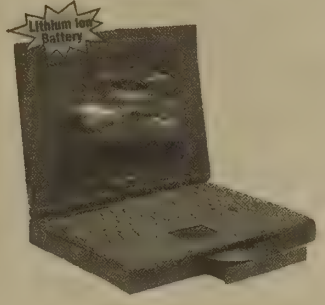
Computers

EPSON DX-33, 4MB, 3.5" FDD	I402201D	249.00
EPSON NX DX2-66, 8MB, 240MB HD, CD-ROM & Sound Card	I432371D	699.00

Season's Greetings

ACCESS
COMPUTER TECHNOLOGIES

NEC



Versa 4000D
Pentium Color

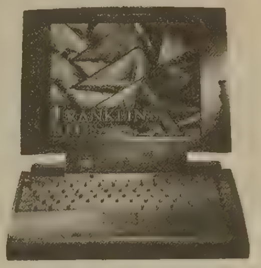
- Pentium 75MHz processor
- 8MB RAM exp to 40MB
- 540MB hard drive
- DSTN Passive color display
- Built-in CD ROM drive
- 16-bit stereo speakers
- Built-in microphone/speakers
- 3 year limited warranty

Built-in CD ROM!

N41402C **$3499**

NEC

New Notebooks!



Versa 2000C

- 486DX4-75 MHz processor
- 8MB RAM expandable to 40MB
- 540MB hard drive
- 9.5" TFT color display
- Windows 95 installed
- Glide point pointing device
- Loads of free software
- 3 year limited warranty

NEW! Windows 95

N11402M **$2599**

2000C 486DX4-75 4/550 TFT N11301 .... $2299

IBM

ThinkPad 701C Notebook

- 486DX2-50MHz processor
- 4MB RAM exp to 24MB
- 360MB HDD
- TFT Color Display
- Multimedia Ready
- 1MB Video RAM
- External FDD

NI701 **$1999**

701C 486DX4-75MHz, 8/720MB HD, TFT Color....................... ??>??? **$3799**

TOSHIBA

PORTÉGÉ 610CT

- Intel Pentium 90MHz Processor
- 8MB RAM exp to 40MB
- 720MB hard drive
- TFT active color display
- Multimedia ready

NT610CT **$3899**

T410CS	Pentium 40, 8MB/810MB HD DSTN Color NT410CS	**$3499**
T410CDT	Pentium 90, 8MB/810MB HD CD-ROM Drive, TFT Color NT410CDT	**$4679**
T700CS	Pentium 120, 8MB/1.2GB HD DSTN Color NT700CS	**$3499**
T700CT	Pentium 120, 16MB/1.2GB HD CD-ROM Drive, TFT Color NT700CT	**$5899**

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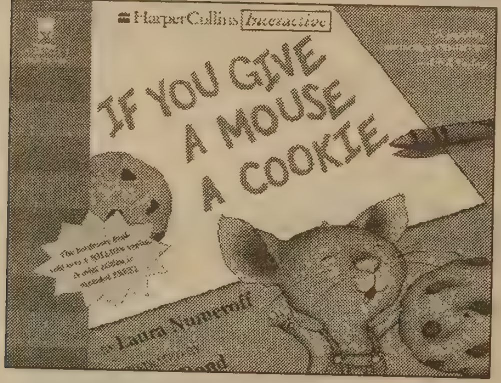
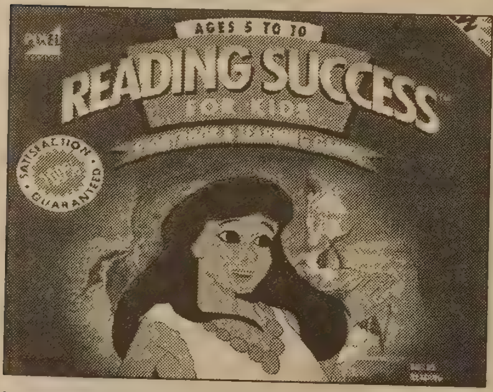
New Products... *continued from page 160*

If You Give A Mouse A Cookie

If You Give a Mouse a Cookie, based on the best-selling children's book written by Laura Joffe Numeroff and illustrated by Felicia Bond, is an interactive storybook for children ages three to seven. Children are invited into the story with read-aloud narration, toe-tapping tunes, and whimsical sound effects. They also have the option of directing the moves and choices of characters or singing along to original songs. Multilevel "click-ons" let kids explore this interactive world for hours. For instance, when they click on a cookie jar, out pops a cookie recipe; if they click on the ingredients, more surprises follow. The hybrid CD features new episodes and art by the book's authors and comes packaged with a hardcover minibook. ($39.95) HarperCollins Interactive, 10 E. 53rd St., New York, NY 10022. (212)207-7000.



Pocahontas



The *Pocahontas* hybrid CD launches the new Reading Success for Kids series from Pixel Genius Entertainment. Designed to make the learning process fun and easy for children ages five to ten, this interactive storybook brings to life one of the world's best-loved stories, with exquisite hand-painted illustrations, enchanting music, and fun-filled animations. Each storybook combines over one hundred pages of text and nearly four hundred clickable vocabulary words. In addition, each chapter of the story is followed by two exciting games that teach reading comprehension, vocabulary, and critical thinking skills. ($39.95) Pixel Genius Entertainment, Inc., 13128 Valleyheart Dr., Studio City, CA 91604. (818)905-3208.

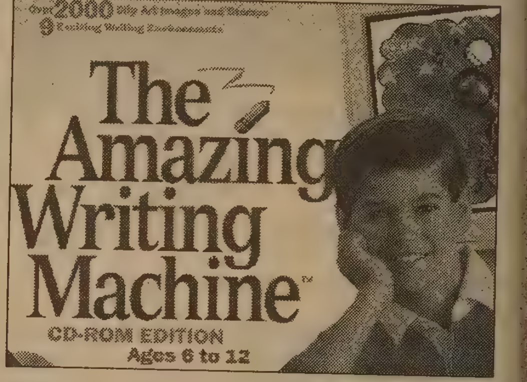
Ozzie's Travels Destination: Mexico

MEXICO
OZZIE'S TRAVELS

This hybrid Mac/PC CD-ROM leads children (ages five to ten) on a fun-filled treasure hunt while teaching them about geography and cultural diversity through stories, games, and hands-on activities. Ozzie's Travels takes Ozzie S. Cutter, a young otter, and his friends on a thoroughly entertaining journey to Mexico. There are five games, each with an entertaining lesson about Mexican culture. Each game is available in three skill levels to accommodate different ages and abilities. Ozzie's Travels also leads children through playtime projects. Families follow step-by-step instructions, creating things like an Aztec calendar, a piñata, tortillas, and a pyramid. In addition, for younger children, there is a paint program for colorizing a variety of pictures, as well as a color bomb. ($24.95) Digital Impact, Inc., 6506 S. Lewis, Suite 250, Tulsa, OK 74136-1047. (918)742-2022.

The Amazing Writing Machine

The Amazing Writing Machine is an inventive writing, illustration, and idea-generating program for kids six to twelve, encouraging them to write and publish their own stories, journals, poems, essays, and letters. Designed for use with Windows or Macintosh and incorporating the familiar Kid Pix interface, The Amazing Writing Machine combines writing, drawing, and desktop publishing tools into a single, easy-to-use program. Kids begin their creative endeavors with the Project Picker, which lets them select their writing form: Story, Letter, Essay, Journal, or Poem. Once a project is selected, the child can choose between two ways to write: the Write Mode allows the writer to start from scratch, while the Spin Mode provides clickable interchangeable words and phrases that make writing more exciting. ($45 for CD-ROM, $35 for floppies) Brøderbund Software, Inc., 500 Redwood Blvd., Novato, CA 94948-6121. (415)382-7818.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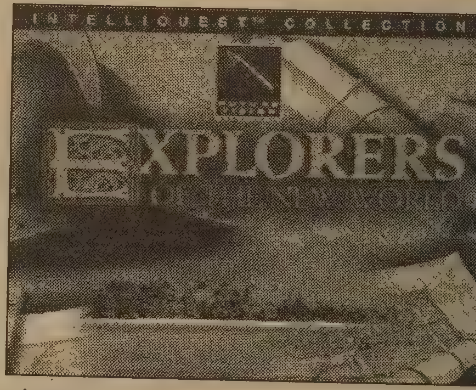

The *Explorers of the New World* CD-ROM brings to life the adventures of more than sixty explorers. With hours of video and animation, the CD (for Windows and Macintosh) allows users to travel with live actors por-

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traying three of the most famous—Christopher Columbus, Hernando Cortes, and Ferdinand Magellan—on their historic journeys, and learn about the discoveries of their contemporaries. There are three fully interactive 3-D environments, as well as interactive maps, a timeline, a database of information on more than sixty explorers, animated learning sections, and a period-authentic musical score. ($49.95) Future Vision Multimedia, Inc., 300 Airport Executive Park, Nanuet, NY 10954. (914)426-0400.

Freshwater Fish

THE
NATURE
COLLECTOR

In Freshwater Fish, the player, as the Nature Collector, builds thirty aquarium exhibits in a "virtual museum," drawing from more than one hundred actual species of beautiful lifelike exotic fish and a multitude of water flora that are gathered from twenty-five various water environments from around the world. The player's challenge is to develop fully functioning and balanced ecosystems within each aquarium. Player decisions trigger simulations of actual responses as they would happen in nature. The game contains information about habitat, feeding, and spawning of all the species to be collected for the Freshwater Fish Museum. ($29.95, Windows CD-ROM) AnimaTek International, Inc., 1650 S. Amphlett Blvd., Suite 212, San Mateo, CA 94402-2515. 1-800-695-GAME.

Kiyeko And The Lost Night

Narrated by Ben Kingsley, *Kiyeko and the Lost Night* is part interactive adventure, part educational tool for kids four and up. The story takes users on a stroll through Amazonia, home to a little boy named Kiyeko who must save his village from two snakes who have stolen the night. The Mac and Windows CD features movie-quality animation, professional acting, authentic settings, click-on animations, and an enchanting original music score, and comes with a picture book of Amazonia. In addition, users can opt to hear the story in English, French, Spanish, Italian, or German and can listen to the entire story or advance at their own pace. ($39.95) Ubi Soft Entertainment, 80 E. Sir Francis Drake Blvd., Suite 3E, Larkspur, CA 94939. (415)464-4440.

Kiyeko and the Lost Night
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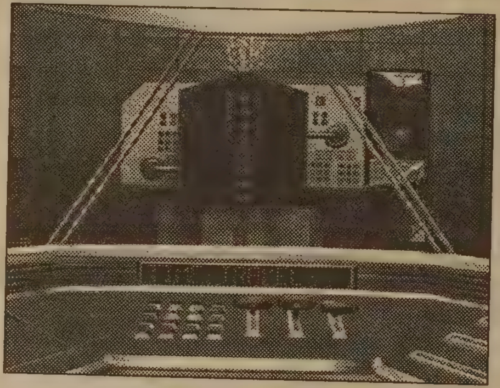
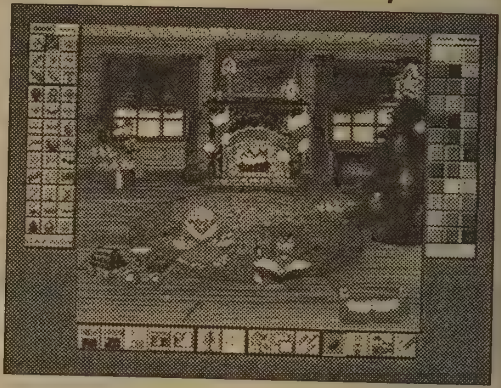
Reading SEARCH



Reading SEARCH, In Search of the Lost Folktales is a reading comprehension program that sends the player back to ancient times as a field agent on a mission in search of folktales. By interacting with more than forty characters, the student must fulfill his or her mission of bringing back folktales to the Society to Explore and Archive Really Cool History (SEARCH) by gathering clues, collecting artifacts, and solving reading problems. Players visit a Mayan town, a Tlinget village, and a palace in China during the Tang Dynasty, dealing with aesthetic, ethical, and cultural issues while learning vocabulary, plot, characterization, setting, meaning, and ideas. ($69.95, Macintosh and Windows CD-ROM) Great Wave Software, 5353 Scotts Valley Dr., Scotts Valley, CA 95066. (408)438-1990.

Suzy's Zoo Holiday Fun!



Suzy's Zoo Holiday Fun! is the fifth in a series of fun, educational, and interactive software programs from Gryphon Software for children three to ten. It is based on the Colorforms concept of creating artwork by mixing and matching existing stick-on shapes and images and affixing them to various thematic backgrounds. There are five different modules that feature favorite holidays such as Valentine's Day, Easter, Fourth of July, and Christmas. With over 120 different shapes, each module provides a palette of instantly recognizable shapes and figures associated with that particular theme. In addition, there are sound, color, and texture options. ($49) Gryphon Software Corp., 7220 Trade St., Suite 120, San Diego, CA 92121. (619)536-8815.

World Discovery Deluxe

World Discovery Deluxe, an entertaining, interactive global geography and history program, tests the user's knowledge of geography, politics, and historical people, places, and events and includes more than seventy-five maps from around the globe. Each highly graphical map can display countries, states, cities, mountain ranges, rivers, lakes, seas, oceans, and other geographical information. *World Discovery Deluxe* offers full-color topographical maps including the famous cloudless satellite view of earth by Tom Van Sant and the Geosphere Project. The user learns

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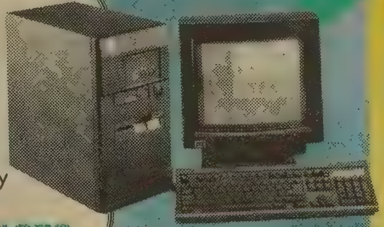

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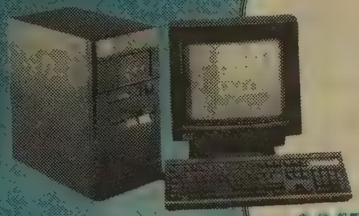

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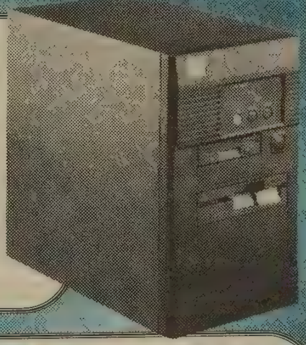

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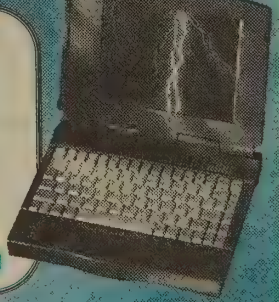

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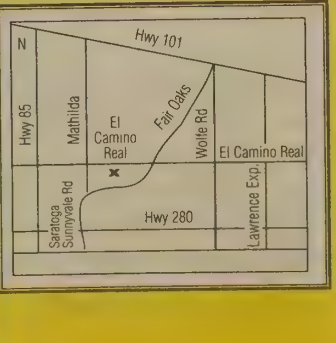

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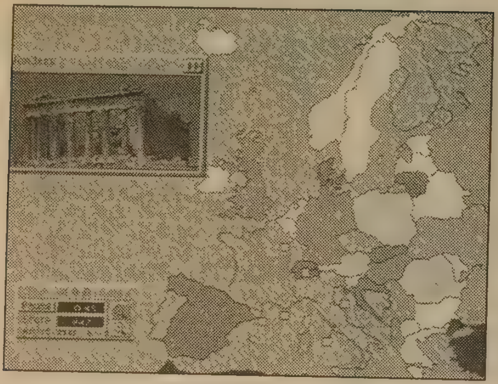
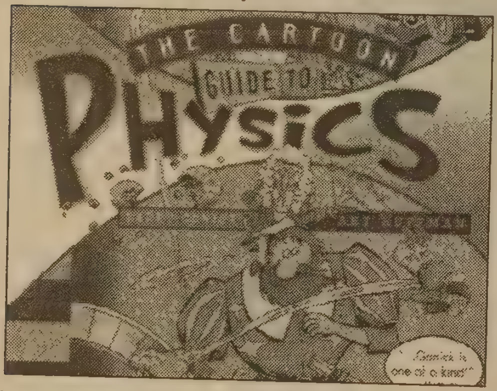


geography through twelve customizable interactive games and activities. Learning is reinforced through speech options that are provided for the majority of native languages for countries and capital cities as well as local greetings and the pronunciation of the names of many states and provinces. ($64.95, for Macintosh and Windows) Great Wave Software, 5353 Scotts Valley Dr., Scotts Valley, CA 95066. (408)438-1990.

Cartoon Guide To Physics



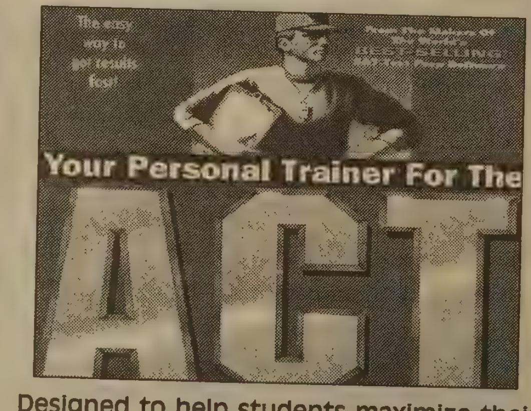
HarperCollins Interactive's *The Cartoon Guide to Physics* is an entertaining CD-ROM for both Macintosh and Windows that uses interactive cartoons to help kids have fun while learning about physics. With brilliant graphics and animation, Larry Gonick and Art Hoffman's *Cartoon Guide to Physics* CD demonstrates important concepts of physics and allows the user to explore and experiment with those principals. There are four different categories: Hall of Fame, where users learn about famous physicists throughout history; the Glossary of terms; Lucy's World, where astronaut Lucy explains complicated physics concepts in clear layman's terms; and The Workshop, where users can put the principals they learned in Lucy's World to practice. ($49.95) HarperCollins Interactive, 10 East 53rd St., New York, NY 10022. (212)207-7000.

Educational Software

Vital Links

Vital Links, multimedia US history curriculum for middle and high school grades, combines CD-ROMs, videodiscs, videotapes, audiocassettes, student newspapers, teacher resource materials, and staff developments in six individual units, spanning US history from precolonization through the present. Multimedia US history projects are the core of Vital Links, featuring four easy-to-use technology tools: a word processing and desktop publishing program, a paint program, a multimedia presentation tool, and a spreadsheet and graphing tool. Each unit links a rich multimedia database of over four hundred primary sources as well as hyperlinks and fly-through animation in a thematic and chronological timeline. ($465 per unit, $2534 for all six units; for Macintosh and Windows) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. 1-800-545-7677.

Your Personal Trainer For The ACT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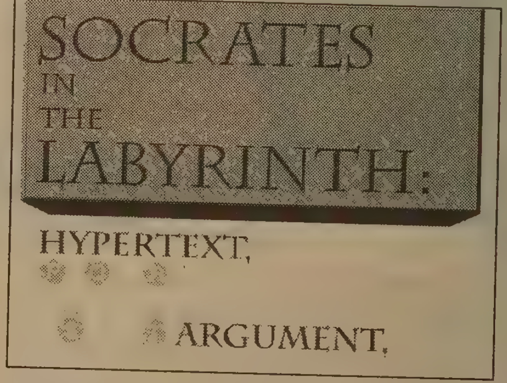
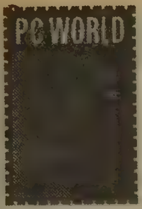
Designed to help students maximize their scoring potential on the ACT, this software creates a personalized training schedule based on the user's strengths and weaknesses. After taking a diagnostic pretest, students review test-taking strategies to improve performance and complete in-depth workouts to strengthen skills tested. The program incorporates the expertise of Ivy West Educational Services, a company that specializes in standardized test preparation. After students complete their training schedule, they can track their progress by taking a full-length or sample ACT posttest. The program compares pretest and posttest scores with three-dimensional graphs; it also compares students' scores using the ACT scores of entering freshman at more than three hundred colleges and universities. ($35) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. 1-800-545-7677.

Socrates In The Labyrinth

In an age of hypertext and the World Wide Web, David Kolb's *Socrates in the Labyrinth* offers a ground-breaking examination of hypertext's implications for the future of rational discourse. It traces the tradition of nonlinearity in philosophical work from the Socratic dialogues through Hegel. It then expands that tradition into the medium of hypertext, developing new methods for presenting and analyzing lines of arguments. The complex hypertextual form of *Socrates in the Labyrinth* demonstrates the author's claims about the relations between linear writing, hypertext structure, and the nature of argument. Professor Kolb also examines the Postmodern enthusiasm for hypertext, and clarifies the confusions between Postmodern concepts and the actual tech-





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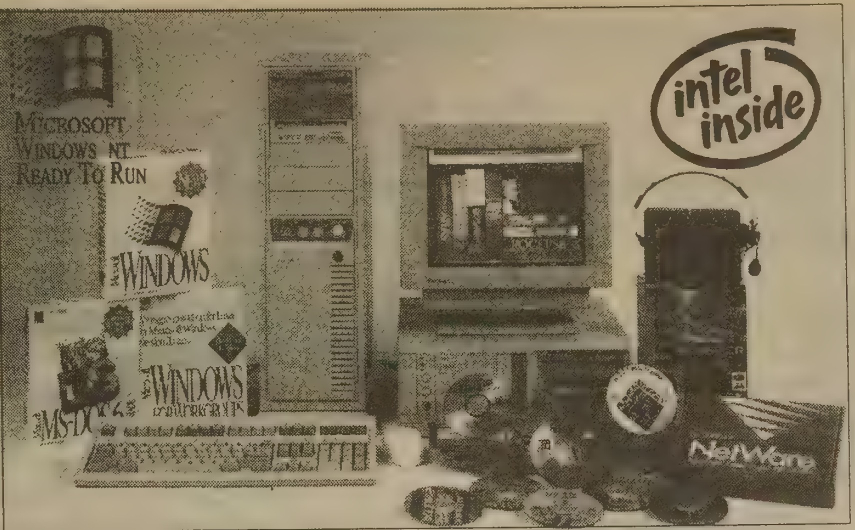

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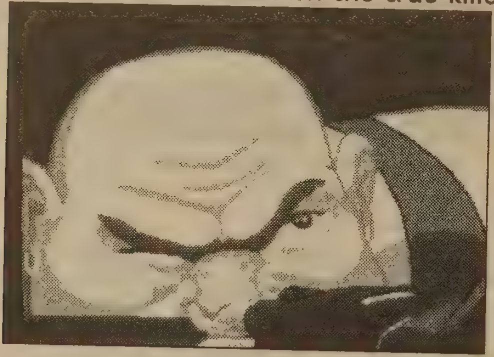
nology. ($49.95, for Macintosh and Windows) Eastgate Systems, Inc., 134 Main St., Watertown, MA 02172. 1-800-562-1638. URL: *http://www.eastgate.com/*.

Games

Full Throttle

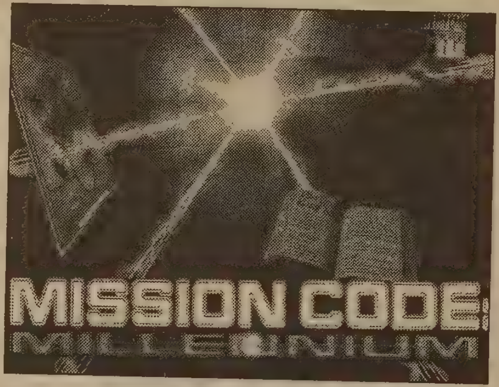
Full Throttle CD-ROM for the Macintosh is the story of Ben, a hard-core biker and leader of a motorcycle gang called the Polecats who is framed for the murder of Malcolm Corley. Corely founded Corely Motors, the last manufacturer of the bikes that sustain Ben's way of life. Separated from his gang and on the run from the law, Ben must hunt down the true killer, clear his name, and convince Corley's rebellious daughter, Maureen, to help save a threatened institution. This highly cinematic adventure mixes third- and first-person perspectives, uses a variety of camera angles to create dramatic effects, and seamlessly blends 3-D and 2-D animation to impose a sense of realism in an animated, surrealistic setting. Full Throttle Macintosh CD requires a 68040 or PowerPC with 8MB of RAM and a double-speed CD-ROM drive. ($54) LucasArts Entertainment Co., PO Box 13070, San Rafael, CA 94912. (415)721-3300.



Caesar II

Caesar II PC CD-ROM presents a city building simulation that brings the best of the ancient world to high-tech life and offers an easy-to-use interface and an optional no-combat mode. Step into your role as Governor of a province in the early days of the Roman Empire. Your challenge is to become the next Caesar. To achieve this goal you must build eternal cities—be sure your citizens are educated and entertained, keep your cities free from plague and riot, and prevent invading barbarians from ruining your day. Caesar II uses an extensive online reference section, full sound track, dozens of authentic Roman structures, and numerous animations to bring the Roman Empire to life. ($69.95) Sierra On-Line, Inc., 3380 146th Place SE, Suite 300, Bellevue, WA 98007. (206)649-9800.

Mission Code: Millennium

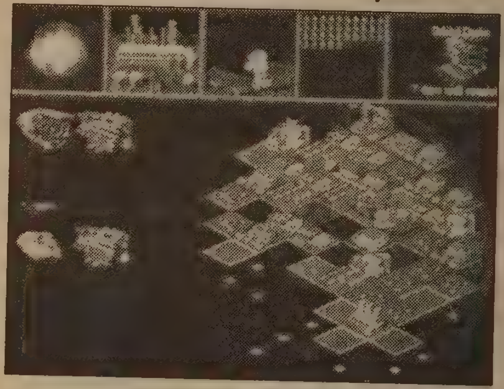


Mission Code: Millennium, a Macintosh/Windows hybrid CD-ROM, offers children (ages eight to adult) an exciting way to explore important developments in history, literature, and the arts over the past thousand years. It puts the player in the role of a "Virtual Time Traveler," assigned to solve sixteen different missions in a quest to replace authentic stolen objects (over one hundred in all)—blueprints for the Tower of Pisa, works of Shakespeare, and paintings by Rembrandt, for instance—back to their proper chronological place in history. ($35) Virtual Entertainment, Inc., 2803 Valley Dr., Manhattan Beach, CA 90266. (310)545-1960.

Into The Void

Into the Void is a strategy game where players use their skills as negotiators, navigators, statesmen, and warriors to create federations that will ensure the survival of their species. Up to ten players may compete via serial modems, local area networks, and the Internet through email. To begin, players agree upon a universe size ranging from a few to hundreds of solar systems, then select from one to six human and alien races—each with a unique set of attributes. Success is determined by a points system based on the style of game each player secretly selects, including negotiation of treaties, establishment of trade routes, enemy annihilation, and spreading of ideologies. The first player to reach a predetermined number of points wins the game. (49.95) Playmates Interactive Entertainment, Inc., 16200 Trojan Way, La Mirada, CA 90638. (714)562-1743.

Ascendancy



Ascendancy is a galactic strategy game of exploration and encounter. The game requires as much skill in diplomacy, exploration, and discovery as it does in interstellar tactics by placing the player in the midst of a galaxy full of alien species. As the game begins, the player is in charge of a single race inhabiting a planet in an unknown galaxy. The player's challenge is to cultivate their own planet's resources and to discover and build inventions necessary to explore other planets and other species. Targeted to adults (ages 18–44), Ascendancy runs on a 486DX 33MHz or higher under MS-DOS 5.5 or higher with double-speed CD-ROM. ($49.95) The Logic Factory, 100 Dolores St., #251, Carmel, CA 93923. (408)625-5777. Distributed by Brøderbund, 1-800-521-6263.

Warlords II Deluxe CD-ROM

Warlords II Deluxe features an upgraded version of Warlords II, with enhancements such as network play, an improved Scenario Builder, plus sixty new scenarios.

continued on page 208

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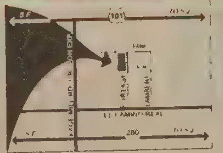
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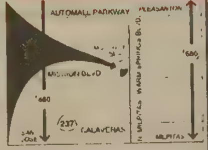
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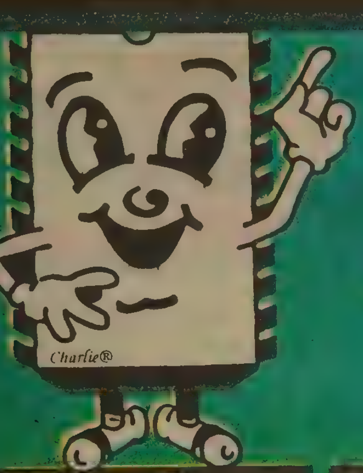

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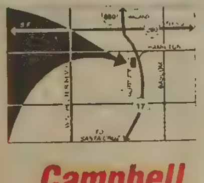

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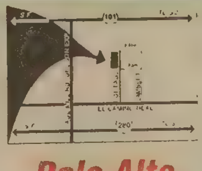

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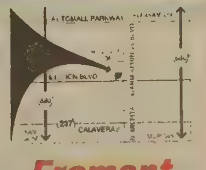

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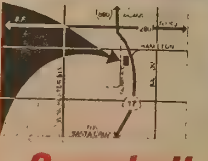

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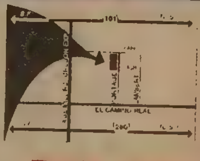

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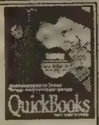

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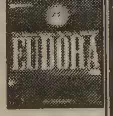

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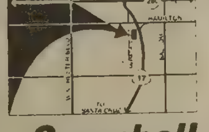

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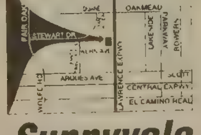

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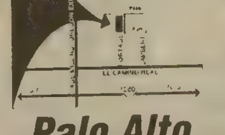

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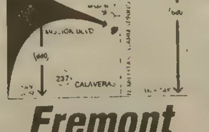

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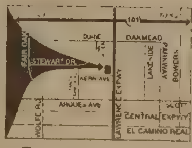

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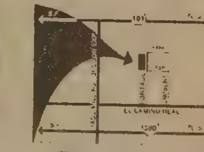

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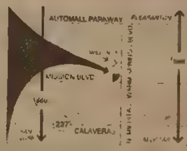

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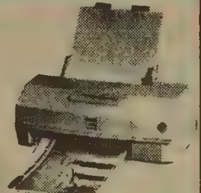

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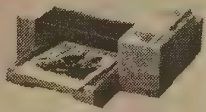

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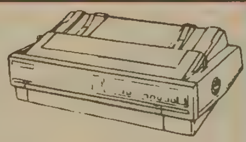

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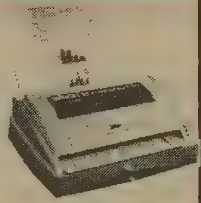

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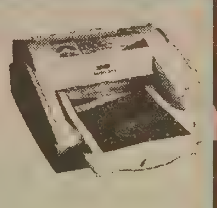

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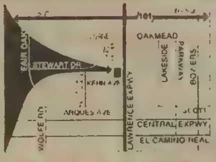

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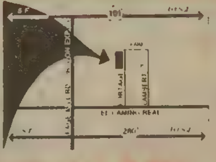

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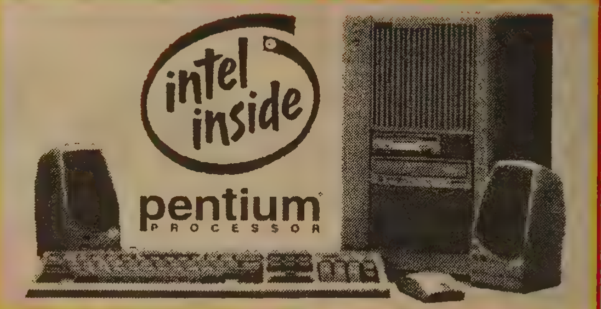
Starion 910

PENTIUM® 75MHz PROCESSOR

8MB/850MB COMPUTER

8MB RAM • 1.44 Floppy Drive • 850MB Hard Drive
Quad-speed CD-ROM • Speakers • Mouse • Windows® 95
14.4 Fax/Modem with answering machine
16-bit stereo sound • Windows® 95 Keyboard
CD Titles
Monitor Sold Separately
#2066675


intel inside
pentium PROCESSOR

WINDOWS® 95 INCLUDED!

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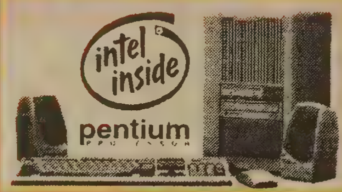
Starion 930

PENTIUM® 100MHz PROCESSOR 16MB/1.2GB COMPUTER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pentium

Pentium® 100MHz Processor • 16MB RAM • 256KB Cache • 1.2GB Hard Drive
1.44MB Floppy Drive • Quad-speed CD-ROM • 16-bit Stereo sound • Speakers
14.4 Fax/Modem with Answering Machine
Windows® 95 Keyboard • Mouse
Windows® 95 • **Monitor Sold Separately**
#2066701

WINDOWS® 95 INCLUDED!

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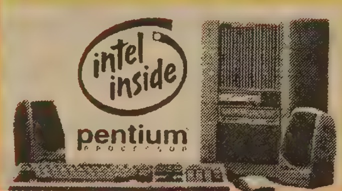
digital™

Starion 940

PENTIUM® 133MHz PROCESSOR 16MB/1.2GB COMPUTER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pentium

Pentium® 133 Processor • 16MB RAM • 1.2GB Hard Drive • 256K Cache
64-bit video card • 28,800 Fax/Modem • Quad-speed CD-ROM
16-bit Stereo sound • Speakers • CD Titles
Keyboard • Mouse • Windows® 95
Monitor Sold Separately
#2066712

WINDOWS® 95 INCLUDED!

$2995

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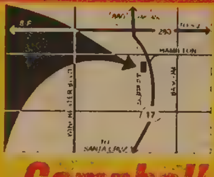
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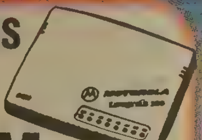
MOTOROLA LIFESTYLE SERIES



28,800 BPS V.34 EXTERNAL FAX/MODEM

- **Quaility**-unparalled Motorola quality and reliability
- **Easy**-Plug and Play combatible
- **Fast**-send and receive faxes, orders and information at rates up to 115,200bps
- **Efficient**-error correction for clear faxes, reliable data every time
- **Secure**-password and callback security

#2046875

$165*

*After $20 Mail-In Rebate. In-Store Price $185

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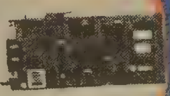

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- **Easy**-Plug and Play combatible
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- **Efficient**-error correction for clear faxes, reliable data every time
- **Secure**-password and callback security

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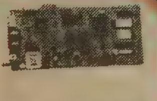
$179*

*After $20 Mail-In Rebate. In-Store Price $199

ZOOM

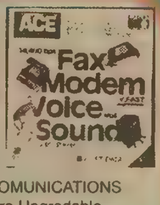


28.8 BPS INTERNAL FAX/MODEM WITH V.34 / V.FAST

Internal Halfcard • Compressed data throughput of 115,200 bps
V.42 bis, and MNP 5 Data Compression
V.42, MNP 2-4 and MNP10 error checking
Complete with Windows and MS DOS communication software
7 Year Warranty
Free Technical Support
#2024992

$158

BEST DATA



ACE 14,400 BPS FAX/MODEM VOICE MAIL/SOUND

THE ALL IN ONE BOARD FOR SOUND AND COMUNICATIONS
V.Fast Upgradable • 16-Bit Stereo • DSP Software Upgradable
#1871782

$99.99

BEST DATA

SMART ONE 14,400 BAUD INTERNAL FAX/MODEM

V.42bis • MNP Hardware
V.32bis • Class II
Throughput up to 57,600 bps
Quicklink II for DOS and Windows
#1871771

$49.99

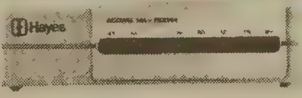
Hayes

ACCURA INTERNAL 14,400 BAUD FAX/MODEM

Free SmartCom Data and Fax Software
Group 3 Fax
V.42, V.42bis, MNP 2-5
08-01185
#1798197

$87

Hayes



ACCURA EXTERNAL 14,400 BPS FAX/MODEM

- Free SmartCom Data and Fax Software
- Group 3 Fax
- V.42, V.42bis, MNP 2-5
- Cables included

08-01174
#1798201

$104

14,400 BAUD INTERNAL FAX/MODEM

Fax Modem
BOARD

GROUP 3 Compatible • 16550 UART
BITCOM and BITFAX S/W • Supports up to Com 7 and IRQ-9
5 Year Warranty
#1930078

$49.99

SIIG

SUPRA 14.4 PLUG & PLAY FAX/MODEM

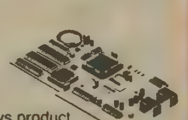
- Easy plug and play installation for Windows 95!!!
- 14,400bps data/14,400 bps fax
- 5 year limited warranty
- Automatically negotiates the best speed and protocol
- Send and receive faxes in the background

SUP-14XP-PNP
#2070948

$74

Supra Corporation

SUPRA 28.8 PLUG & PLAY FAX/MODEM



- Easy plug and play installation for Windows 95!!!
- 28000bps data/14,400 bps fax • Caller ID
- 5 year limited warranty • Complete Windows product
- Automatically negotiates the best speed and protocol
- Send and receive faxes in the background

SUP-28XP-PNP
#2079084

$154

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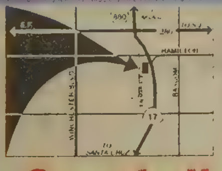

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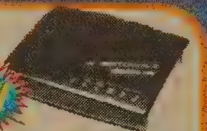
MODEMS

MOTOROLA BitSURFER PRO ISDN MODEM



NEW

Motorola's BitSURFER Pro ISDN modem is a high-speed terminal adapter that lets you access the power of ISDN for all you home and office communications. Four times faster than the fastest analog modem- 128,000 bps, Two analog device ports, Multilink PPP, Custom calling features, Simultaneous voice and data on a single ISDN line, Window 95 compatible.
#2093877

$384

ISDN EXTERNAL DIGITAL MODEM

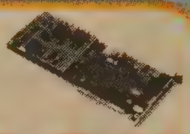
NEW

The fastest digital modem technology. 128 kbps, four times faster than the fastest analog modems, simultaneous voice, data, fax. Windows® 95 Compatible
#2090335

3Com

$429

USRobotics SPORTSTER SI 14.4 INTERNAL DATA/FAX MODEM



- USRobotics quality matched with Rockwell chips
- New WinRPI software based V.42 and V.42BIS data compression
- Universally compatible with all standards of ITU-T (formally CCITT) Up to V.32 BIS
- Supports the AT command set

#2050562

$49.99

28,800 BAUD INTERNAL FAX/MODEM w/V.34

- Class 1 and 2
- Supports up to Com 1-4 and IRQ-3,4,5
- 5 Year Warranty

#1991619

SIIG

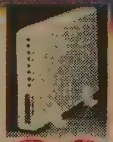
$134.99

PRACTICAL PERIPHERALS 14,400 BAUD INTERNAL FAX/MODEM

14,400 Baud Modem/Fax
Super High Speed V.32 BIS Protocol
Quick Link II communication Software
#1667912

$79.99

PRACTICAL PERIPHERALS 14,400 BAUD MINI TOWER FAX/MODEM EXTERNAL



V.32 and V.42 Bis
Quick Link II Communication Software
#1757781

$99.99

BOCAMODEM V.34 28,800 bps External Fax/Modem

New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981878

$188

BOCAMODEM V.34 28,800 bps Internal Fax/Modem

New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Throughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981867

$168

Telecoupler II

High Speed Modem Coupler

CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.

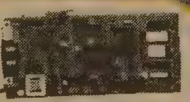
- Accoustic coupling with telephone handset
- Industry standard telephone to modem connector RJ-11
- Full or Half Duplex Communication Mode

#1847790

CP+

$109

14,400 BPS INTERNAL FAX/MODEM

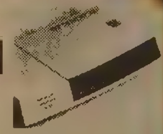


V.42 bis, V.42 bis • Communication Software
#2010216

$42.99

DESKPORT 28.8 EXTERNAL MODEM

FULLY V.34 COMPLIANT



- Parallel Port Interface for true 28,800 bps throughput in Windows-Standard Serial
- 14,400 bps Group III Fax
- Compatible with 28,800 (V.34 and V.FC),14,400, 9600, 1200 and 300 bps modems
- APT- licensed with Windows 95® (Advanced Parallel Technology)

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Microcom

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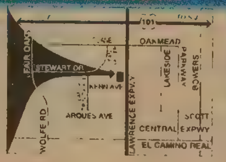

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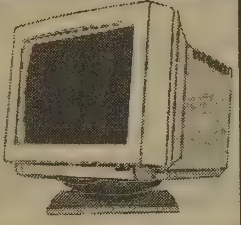
SuperScan™ 15s
Non-Interlaced
1280 x 1024



15" SUPER VGA MONITOR

Non-Interlaced • .28 dpi • Flat Screen
Digital Control

$384

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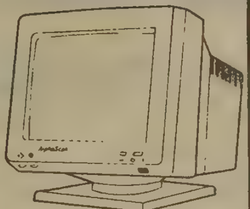
TECHNOLOGY



15" SUPER VGA 1280 X 1024 .28 MONITOR NON-INTERLACED

• Digital Control

$395

#2061348

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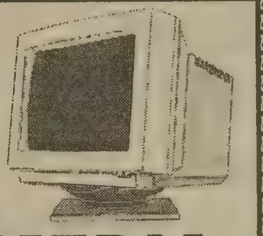

15" MULTIMEDIA MONITOR

NEC Tube • 1280 x 1024 • Non-Interlaced
Built-in Speakers with Amplifier • Headphone Jack

$395

#2004066

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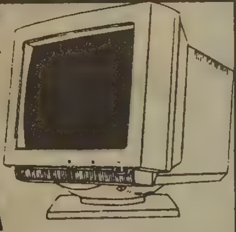


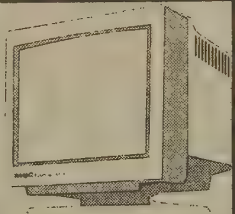
CM 4015 15" SVGA 1280 X 1024 NON-INTERLACED

• 28 mm dot pitch • Digital control • 30-64 KHz
• HI-Refresh

$395

#2082817

MAGNAVOX



CM 4018 17" SVGA LARGE SCREEN NON-INTERLACED

• 1280 X 1024 • Non-Interlaced
• 28mm dot pitch • Digital Control • 30-66KHz

$795

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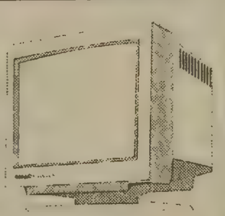

17" SVGA FLAT SCREEN MONITOR NON-INTERLACED

1280 x 1024 • Flat Screen • .28mm dot pitch
Non-Interlaced

$879

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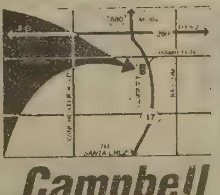
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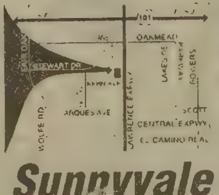
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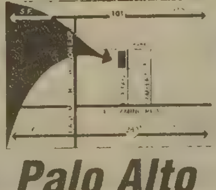

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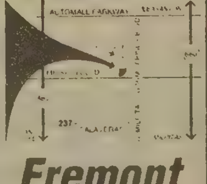
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340MB EXTERNAL HARD DRIVE FOR MACINTOSH®

NU DESIGN

$199

MODEL 340
#1850659

SPIRIT

540MB EXTERNAL HARD DRIVE FOR MACINTOSH®

- 40 Watt Power Supply • DCR Active Termination
- Redline! Disk Utilities • Stackable
- Five Year Warranty

$299

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730MB EXTERNAL HARD DRIVE FOR MACINTOSH®

NU DESIGN

$369

MODEL 730
#1993781

SPIRIT

840MB EXTERNAL HARD DRIVE FOR MACINTOSH®

- External ZFP hard drive for Macintosh®
- 12ms Access
- 2 Year Warranty

$389

ST-ZFP-Q840
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1 GIGABYTE EXTERNAL HARD DRIVE FOR MACINTOSH®

NU DESIGN

$499

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2.0 GIGABYTE EXTERNAL HARD DRIVE FOR MACINTOSH®

Cables and software included.

NU DESIGN

$999

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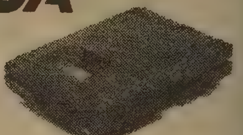

100MB SCSI ZIP DRIVE SOLUTION FOR MACINTOSH®

$199 95

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2.0 Gigabyte QIC External Tape Back-Up for Macintosh®

- Easy to set up and use
- Cables and software included

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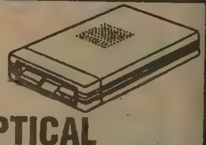

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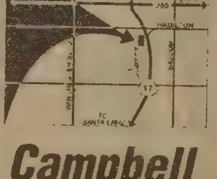

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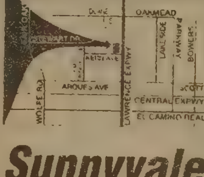

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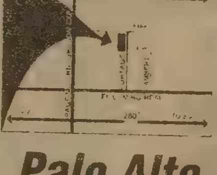

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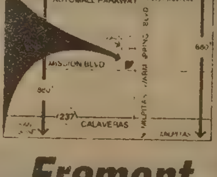

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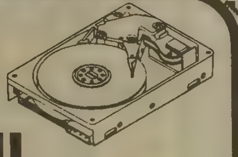

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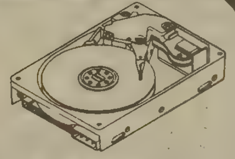

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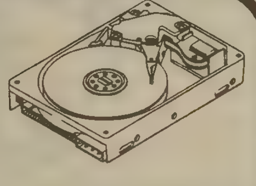

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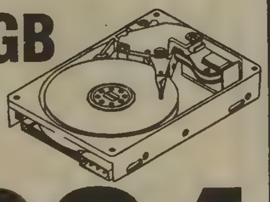

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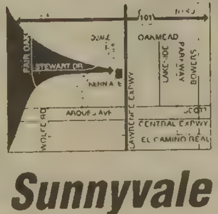

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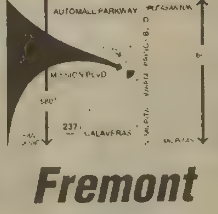

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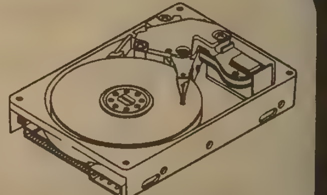

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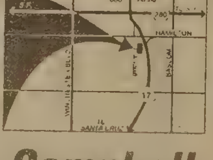
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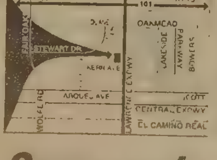
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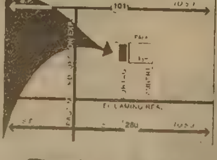
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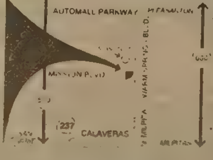
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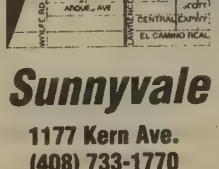

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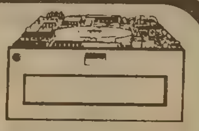

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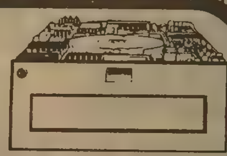

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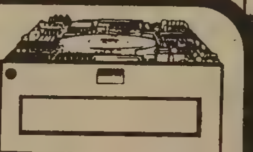

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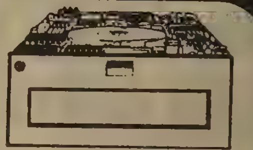

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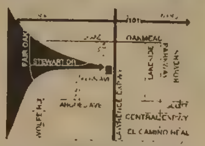
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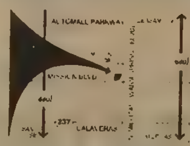
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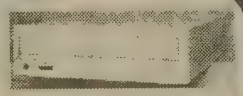

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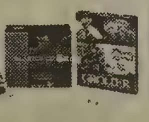

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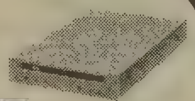

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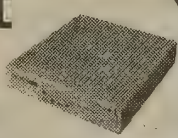

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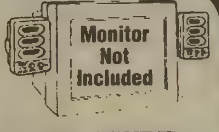

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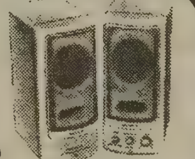

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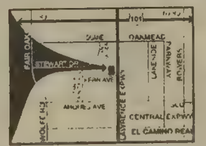

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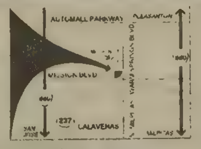

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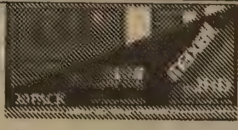

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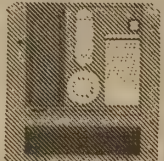

3.5" 230MB MAGNETO OPTICAL REWRITABLE DISK
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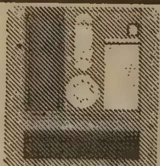

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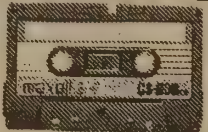

CS-600 HD 60MB HIGH DENSITY DATA CASSETTE
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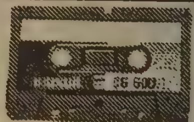

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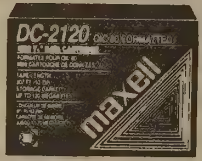

DC 2120R QIC-80 120MB UP TO 250MB FORMATTED DATA CARTRIDGE
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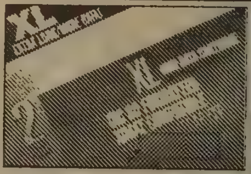

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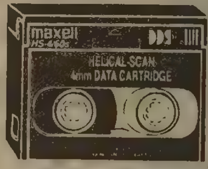

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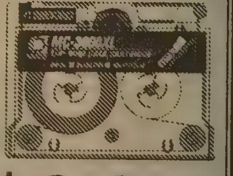

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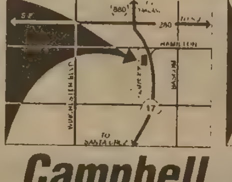
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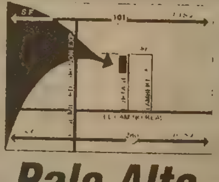
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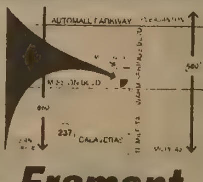
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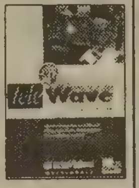

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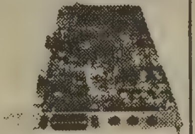

- 16-bit 44.1kHz stereo sampling
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- Roland Audio Tools™ software, and Windows 3.1drivers

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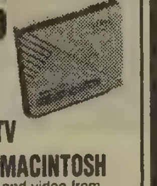

External VGA-to-video/TV encoder for your PC or MACINTOSH

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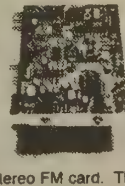

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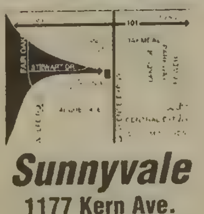

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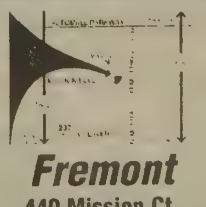

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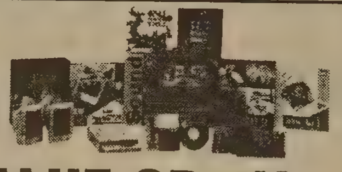

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• Sound Blaster 16 upgradeable IDE stereo audio card • Quad-speed IDE CD-ROM drive • Stereo-Speakers • 11 bundled software titles: Groiler Multimedia Encyclopedia, Hong Kong Mahjong Pro, Populous II, Seven Cities of Gold, Shadowcaster, Space Hulk, The Savage Empire, Ultima VII, Ultima Underworld, Yeager's Air Combat, Wing Commander Academy

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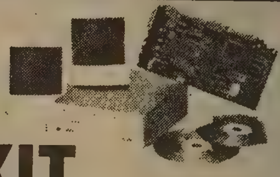
Sun Moon Star



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Hitachi Internal Quad-speed CD-ROM Drive

- 220ms access time • 600KB per second data transfer rate
- 128KB cache memory
- Motorized Tray • Speakers
- ESS 16-Bit Sound Card with IDE CD-ROM Interface
- 10 CD Titles including Groliers Multimedia Encyclopedia 1995

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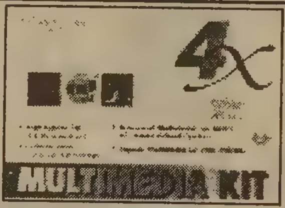
QUAD-SPEED MULTIMEDIA KIT



- Internal Quad-speed CD-ROM Drive - 600 Kbyte/sec transfer rate for exceptional multimedia performance
- 16-bit Sound Card - Sound Blaster PRO and WIndows Sound System compatible; 48 watts PMPO
- 3" Desktop Speakers - 3" full range speakers enhance the multimedia experience
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- 10 CD Titles and Utilities Included

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- Deluxe powered speakers
- Six additional software utilities for sound recording, editing and playback capabilities
- Several easy installation tools

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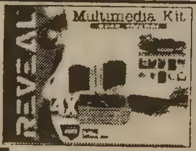

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- Double-speed internal CD-ROM drive
- Stereo speakers Includes 5 multimedia software titles

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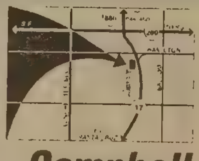

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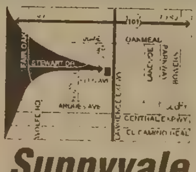

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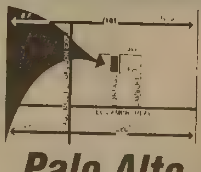

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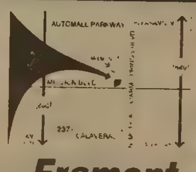

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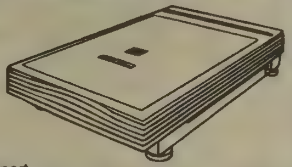

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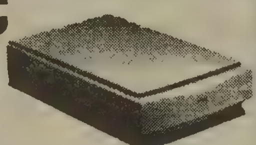

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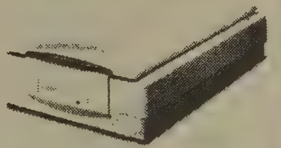

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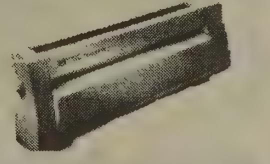

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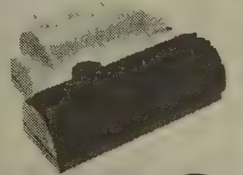

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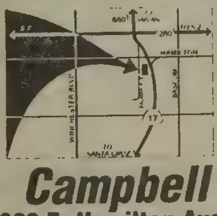

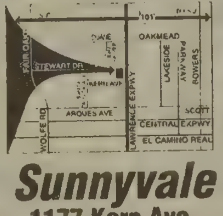

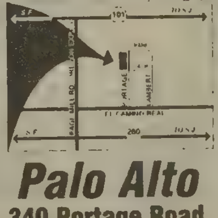

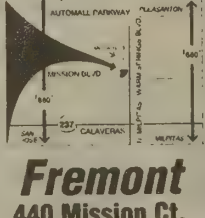

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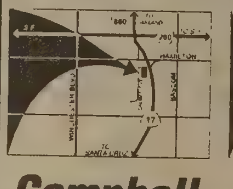

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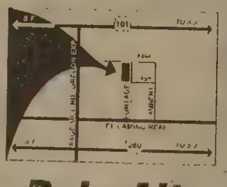

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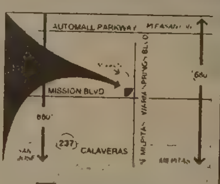

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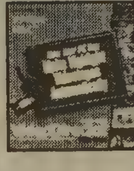

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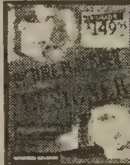

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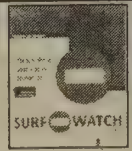

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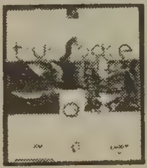

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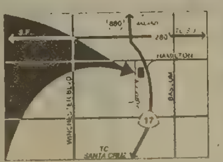

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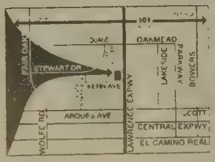

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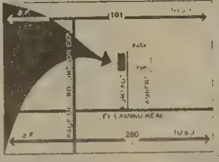

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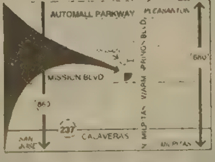

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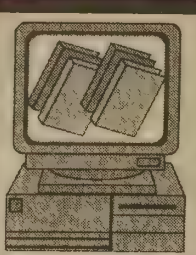

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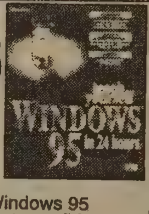

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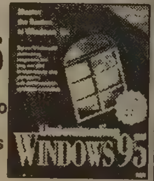

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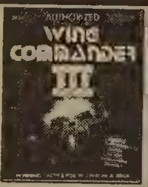

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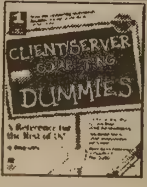

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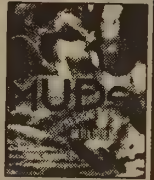

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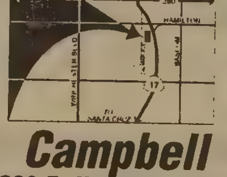

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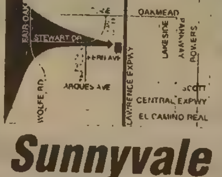

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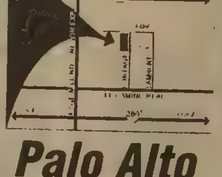

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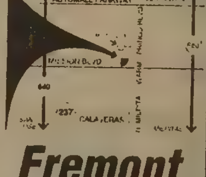

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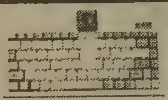

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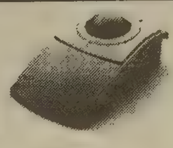

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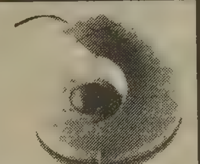

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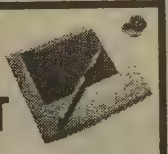

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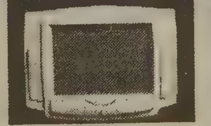

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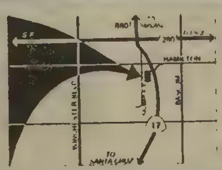

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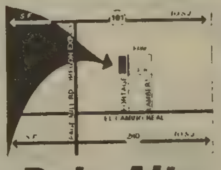

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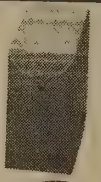

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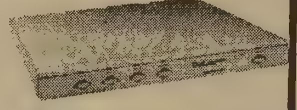

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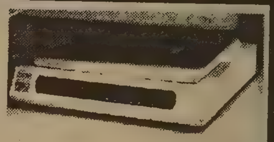

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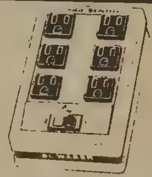

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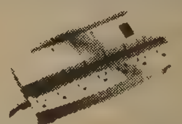

Protects your computer, modem or facsimile machine from power disturbances, surges, or spikes. You will be selecting a premium surge protector with U.L. 1449 330 Volt Rating, 20 to 1 EMi/RFi noise reduction to prevent computer lock up and data errors, and a 7 outlet strip with a 6 foot power cord, for only....
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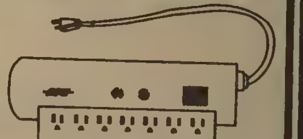

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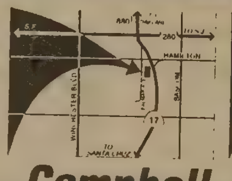

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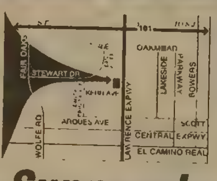

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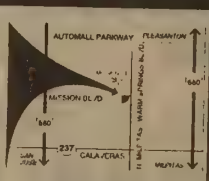

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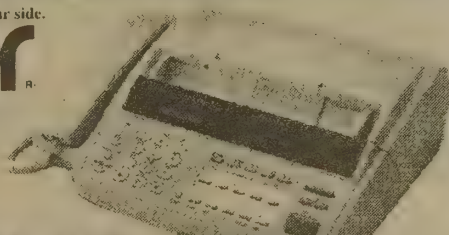

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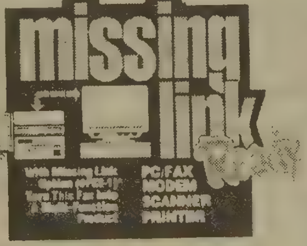
WITH 1MB MESSAGE CENTER AND PC LINK CAPABILITY

Brothers revolutionary fax machine offers a digital message center for either 18 minutes of recording and up to 50 page of memory for out of paper reception, or you can configure the storage memory to be used on a first come first serve basis. The optional missing link will allow this fax machine to act as a PC/fax modem, a scanner, and a printer! Other features include anti-curl system, uses ThermaPlus paper, quick-scan, 164' paper roll capacity, 15 page document feeder, auto cutter, sequential broadcasting, and 60 number memory just to name a few. Now only...



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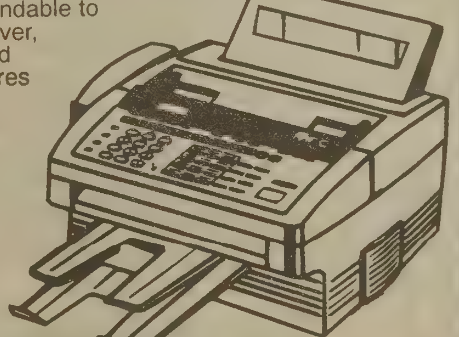
The Brother MFC-4500ML five-in-one multi-function center integrates five separate products into one compact desktop package! Fax features include 512K memory for 20 pages of document storage either for broadcasting or out-of-paper reception (upgradable to 70 pages/1.5MB), 200 sheet paper tray, 64 level grayscale, 124 number memory, and much more! As a printer for your computer this machine provides 300 x 300 dpi laser 6 page per minute output as well as 512K memory (expandable to 20MB), Optimized Windows driver, Intelliprint, 45 internal fonts, and Power save mode. Other features include multiple copying up to 99 copies with reproduction/enlargement capabilities, 200 x 400 dpi scanner with Windows PC and fax/modem. The ultimate fax machine for home or office is now available for just...



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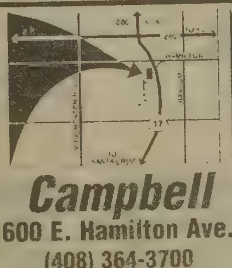

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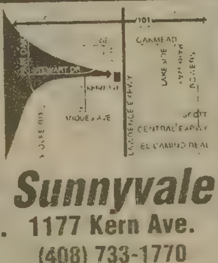

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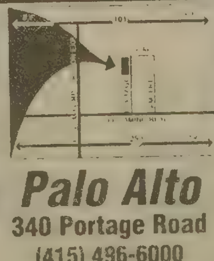

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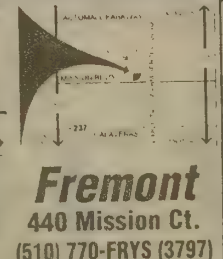

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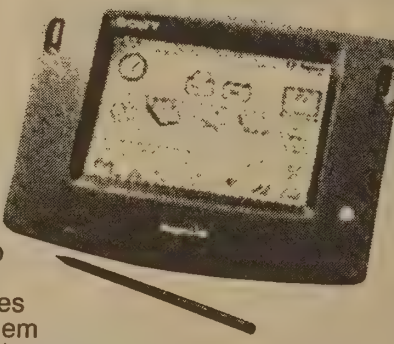

A revolutionary concept in electronics which integrates the most useful features of personal computers, telephones and pagers in a handheld, portable unit. By incorporating Magic Cap™ communicating applications platform and Telescript™ technology, the Magic Link™ Communicator represents a leap forward in the use of technology to enhance your lifestyle. Features include integrated Fax/Data Modem built-in mic/speaker, Pocket Quicken, PenCell Spreadsheet, Spell Finder, Datebook, Notebook, Calculator, File Cabinet, mind game software, and much more. Magic Link™ will also facilitate various modes of communication including Phone, E-mail, Fax, Pager and Infrared, as well as supporting AT&T PersonaLink℠ Services and America Online service.

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POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS

Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

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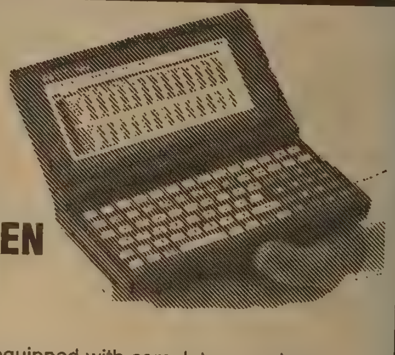
WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN



The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

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Model HP-200LX 1MB
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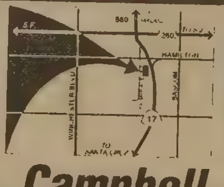

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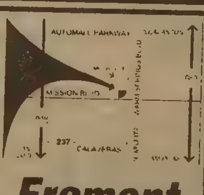

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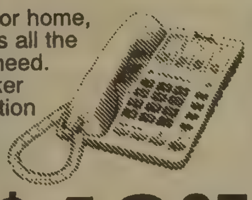
SPEAKERPHONE



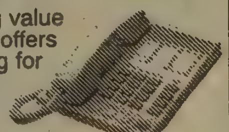
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49⁹⁵

Model KX-T2315
#1530100

Panasonic

SPEAKERPHONE



This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59.95

Model KX-T2355
#1287186

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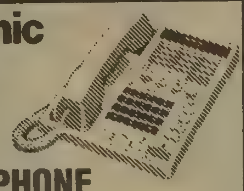
TWO LINE SPEAKERPHONE



A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, separate ring switches for each line, and a local mode function. Now only...

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Model KX-T3110
#1505313

900MHz EXTENDED RANGE CORDLESS PHONES

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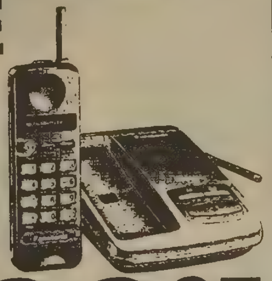
30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE



This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

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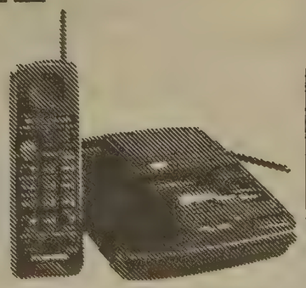
MODEL KX-T9500
#1948839

Panasonic

900MHz PALM-SIZED CORDLESS PHONE WITH ALL DIGITAL ANSWERING MACHINE



Panasonic's highly anticipated 900MHz cordless phone with all digital answering machine is finally here and it was well worth the wait! It's compact base and palm-sized handset make this the perfect addition to any home or office. Features include 10 number memory, 30 channel AutoScan, 3 personal mailboxes, 2-way/memo recording, intercom with 2-way paging, pager call, message scan (scans the first few seconds of each message), and much more. Now just...

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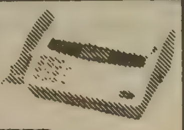
MODEL KX-T9550
#2068220

FAX MACHINES

Panasonic

FAX MACHINE WITH PAPER CUTTER AND SPEAKERPHONE



Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale. super thermal paper compatible. paper curl reduction. 164' paper roll capacity. 15 page document feeder. distinctive ring. delayed transmission. paper save mode. telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing, and much more. All for just...

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Model KX-F550
#1944271

Panasonic

FAX MACHINE WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$344.98

Model KX-F750
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PLAIN PAPER FAX MACHINE WITH 20 PAGE MEMORY

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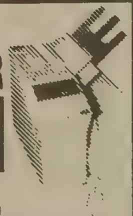

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette. adjustable letter/legal tray. 32 level halftones, polling. activity reporting. 20 page document feeder. broadcasting to 128 locations. fax transfer. enlargement and reduction copierfunctions. fax/tel switch. 28-station one-touch dialer. 100-station speed dialer. telephone directory with alpha-search.

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Model KX-F3000
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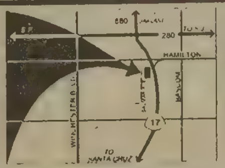

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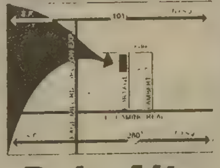

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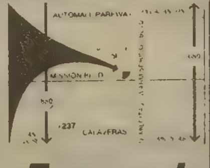

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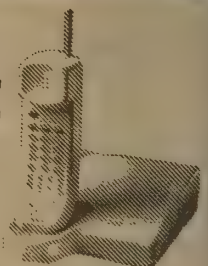
By combining 100 channel auto scan (which allows the phone to lock-on-to the channel that is getting the clearest signal) and 900 MHz crystal clear technology (for improved clarity and extended range), GE has developed the ultimate cordless phone! Other features include 10 number memory, page/find from base to handset, handset volume control, distinctive ring, and more. An excellent value at....

$\$149^{99}$

MODEL 2-9910 #1923425

uniden

40 CHANNEL 900MHz CORDLESS PHONE



Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$\$158^{99}$

MODEL EXP-901
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SONY.

40 CHANNEL 900 MHz CORDLESS SPEAKERPHONE

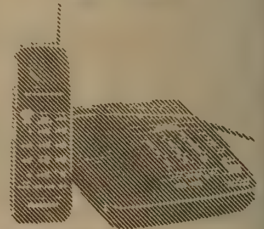
By combining 900MHz Enhanced Reception with a 40 Channel Auto Scan system, Sony has designed a cordless phone that not only provides clearer transmission with less noise and interference than conventional 46 to 49 MHz cordless phones, but also gives you enhanced channel selection resulting in greater flexibility if you encounter interference during a call. With 2-Way Paging/Intercom, Base Speakerphone, 3-Way Conversation, 20 number memory, last number redial, flash, and more. Sony has designed the perfect cordless phone for the home or office at only...

$\$199^{95}$

MODEL SPP-ER1
#1839009

Panasonic

900MHz CORDLESS DUAL KEYPAD SPEAKERPHONE



This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

$\$249^{95}$

MODEL KX-T9520
#2068219

AT&T

DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

AT&T, the leader in digital telephone technology once again leads the way into the future with the introduction of this 900MHz cordless phone. By operating at the 900 MHz frequency range rather than the conventional 46 to 49 MHz range, this AT&T cordless phone will provide clearer transmission with less noise and interference from other electronic devices, as well as extended range performance! Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only...

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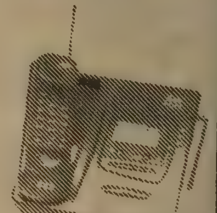
MODEL 9120 #1853261

VTECH

DIGITAL 900MHz CORDLESS PHONE

WITH 30 MINUTE ALL DIGITAL ANSWERING MACHINE



If you want premium performance in a cordless phone look no further than this digital 900MHz Cordless phone with 30 minute digital recording capability and 4 programmable voice mailboxes! Beside the extended range and improved clarity over traditional 49Mhz cordless phones, this model also offers handset volume control,10 number memory, low battery and out-of -range indicator, one-way paging, programmable ring, mute, flash, as well as, message skip and repeat (for immediate access to the next or previous message without having to wait for a tape to rewind or fast forward), and a whole lot more! An excellent value at...

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MODEL 900i #2072021

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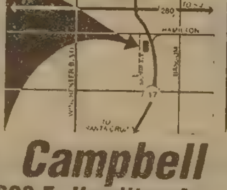

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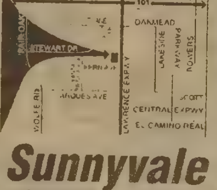

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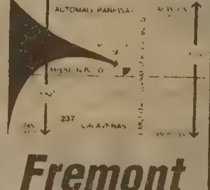

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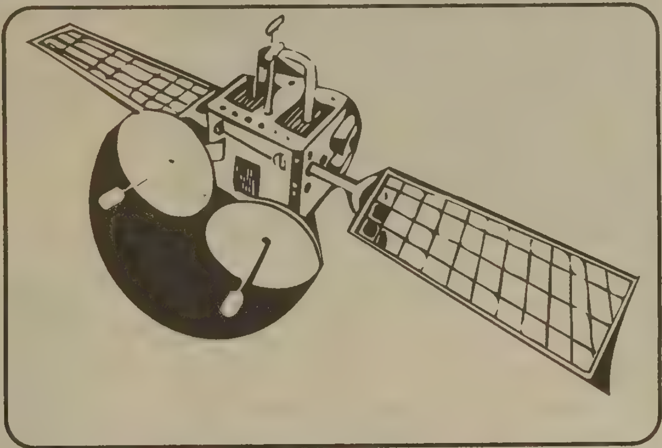

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MODEL DS-1120WR
#1942578

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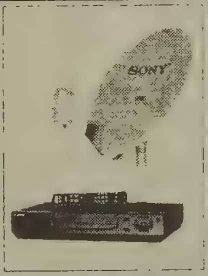
DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER



Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give an outstanding home theatre experience. **Other features include Sony's signalseeker LED** for easy install and a universal remote.*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

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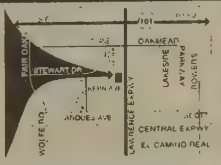

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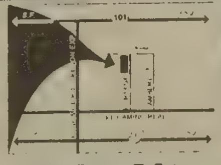

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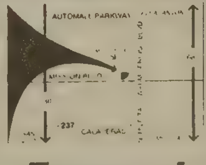

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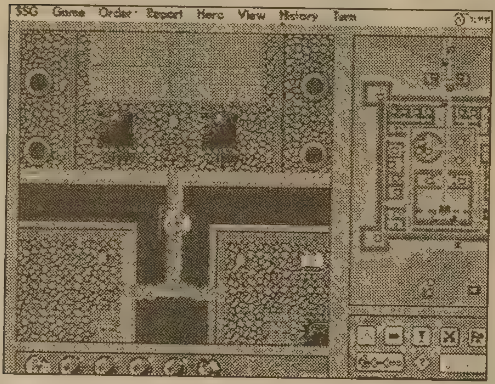
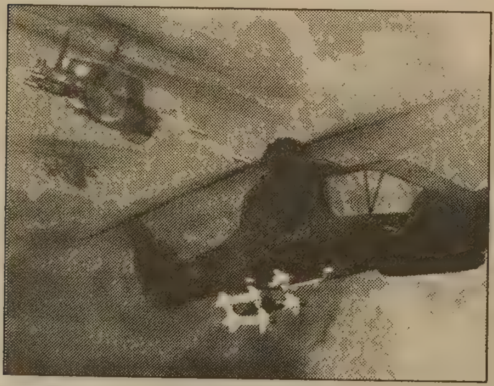
New Products...*continued from page 176*



Additional new features include improvements to Warlords II game options, an improved movement system for faster game play, an undo function for movement, new underground scenarios, and a new music score. Warlords II Deluxe requires a 386 or better (486 recommended) with 4MB of RAM, 2MB of expanded RAM available, and a CD-ROM drive. ($69.95) Strategic Studies Group, 3186 Hyde Park Pl., Pensacola, FL 32503.

Werewolf Vs. Comanche

This PC CD-ROM consists of two helicopter combat simulation games sold together—an updated version of Comanche CD and the entirely new Werewolf. The two-CD set, which features US and Russian attack helicopters engaging in more than one hundred different combat missions, can be played as individual games or linked together via modem, direct or networked. Werewolf features Russia's Kamov KA-50 Werewolf attack helicopter. Comanche 2.0 features the American Boeing Sikorsky RAH-66 Comanche attack helicopter. NovaLogic's Voxel Space technology, which gives five hundred times more detail than traditional 3-D games, includes haze, shadows, reflective water, translucent smoke, and debris. Each game will allow the pilot to refuel, repair damage, and reload ammunition when they touch down on a landing pad. ($59.95) NovaLogic, Inc., 26010 Mureau Rd., Ste. 200, Calabasas, CA 91302. (818)880-1997.



Al Unser, Jr. Arcade Racing

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In Al Unser, Jr. Arcade Racing, players take on fifteen of the toughest auto race courses ever created. Designed to make extensive use of Windows 95's multimedia capabilities with 32-bit architecture and high-speed graphics performance, this program presents a white-knuckle, three-dimensional racing adventure, complete with music and real-life sound effects. Users can become familiar with their car in Training Mode, go head-to-head against a friend via a network hookup in Duel Mode, or race against ten professional drivers in Competition Mode. ($40, for Windows and Power Mac) Mindscape, Inc., 88 Rowland Way, Novato, CA 94945. (415)897-9900.

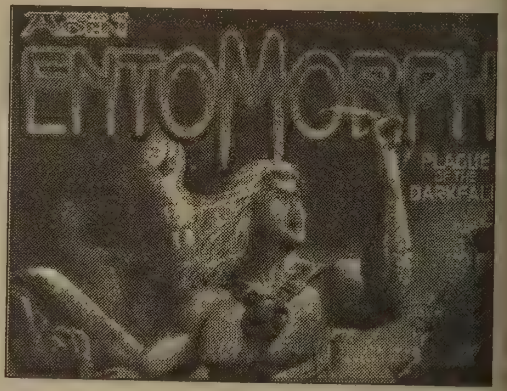
The Riddle Of Master Lu

Sanctuary Woods has translated the life of Robert Ripley of *Ripley's Believe It or Not!*, who scoured the world in search of oddities, into a 3-D graphic adventure game called The Riddle of Master Lu. The solid story line and challenging puzzles are developed through over two hundred rooms and more than thirty video characters to produce up to one hundred hours of gameplay. The game is set in 1936, as the world is teetering on the brink of war.

A powerful talisman, the First Emperor of China's jade seal, has become the focus of a deadly power struggle that could shift the outcome of global conflict. It is up to the player to help Mr. Ripley and his constant companion, Mei Chen, prevent the seal from falling into the hands of a ruthless enemy. ($59.95 for DOS CD-ROM, Macintosh version due first quarter '96) Sanctuary Woods, 1825 S. Grant St., San Mateo, CA 94402. 1-800-943-3664.

Entomorph

Entomorph, Plague of the Darkfall is a fantasy role-playing adventure game that takes place in Kyan, part of SSI's World of Aden game world. In Kyan, the citizens are slowly being transformed into grisly giant insects, and the player will suffer the same fate unless they do something. Entomorph features high-resolution graphics and bewitching original music. Users can choose to melee up close or cast spells; in addition there are traps and puzzles for a total of over forty hours of play. ($40), for Windows and Macintosh) Strategic Simulations, Inc., 675 Almanor Ave., Suite 201, Sunnyvale, CA 94086-2901. (408)737-6800.



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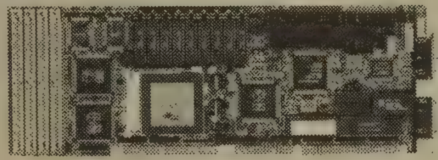

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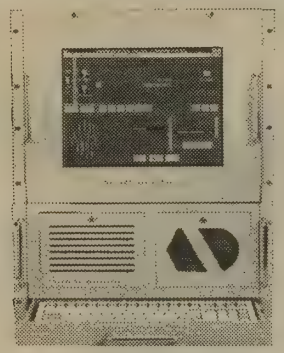

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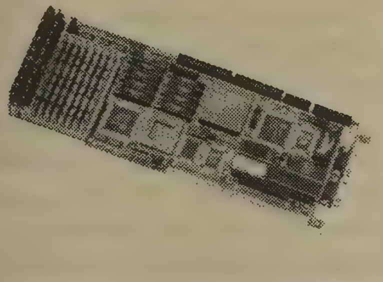

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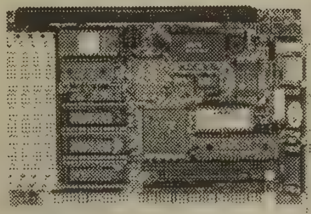

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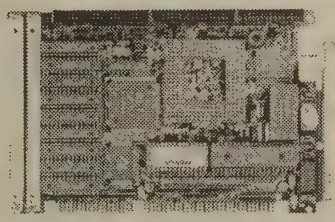

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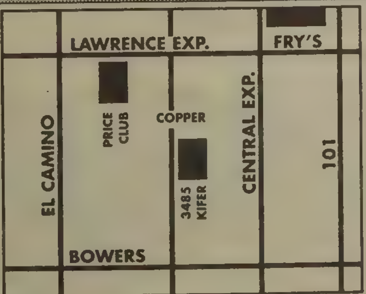

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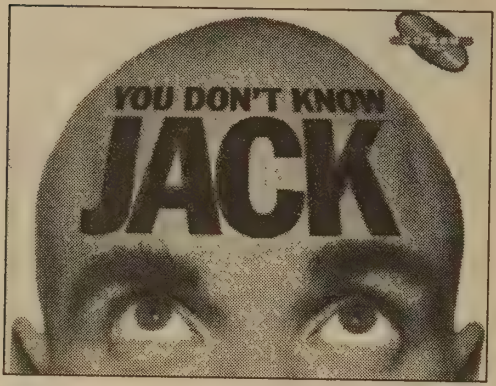
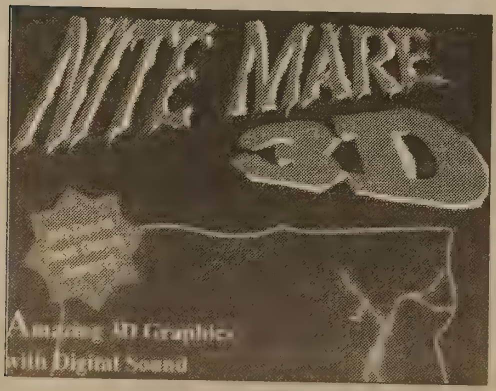
You Don't Know Jack



You Don't Know Jack is a multiplayer CD-ROM game that gives users the sensation of being a contestant on a challenging and irreverent television game show. It combines classic trivia with pop culture references in a witty, brain-twisting mixture that's as challenging as it is entertaining. Over eight hundred questions are divided into three categories: Multiple Choice, Gibberish, and Jack Attack. If a player doesn't know the answer to a Multiple Choice question, he or she can choose the score-saving feature, Screw Your Neighbor. Gibberish questions are rhyming puzzles worth big bucks. The Jack Attack is the third and final round of every game and consists of association questions that ask players to match two phrases or words that directly relate to a given clue. (special introductory price of $30; for Macintosh and Windows) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.

Nite Mare 3D



Nite Mare 3-D is a thriller game to compete with DOOM and features 3D graphics to provide a setting of striking realism that draws the player into the game. The objective is to destroy all the evil spirits and horrifying beasts that are trying to kill the player. The game takes place in a horror house, where the player navigates through numerous corridors and rooms. Complementing the visual effects, there is high-quality digital music and sound effects that help add to the eerie atmosphere. For novice players, there is a 30-page answer book and a map browser on disk when assistance is needed. If the going gets really tough, players can refer to the four cheat models included with the game. ($39) Accurate Research, Inc., 1500 Wyatt Dr., Suite 10, Santa Clara, CA 95054. (408)748-9988.

Multimedia Software

Music Mentor 2.0

MUSIC MENTOR

Music Mentor 2.0 for Windows both teaches music fundamentals and history, and provides capabilities for recording and editing music. It is divided into two linked portions: a tutorial and a personal studio section. The tutorial teaches users about reading music notation and the basic fundamentals of music. These concepts are brought to life through thirteen centuries of musical styles and pieces from famous composers. After listening to a music sample in the tutorial, users can launch the same piece in the personal studio for further explorations. Also, users can display their creativity by producing original compositions. There are several ways for users to create original compositions: record music from any MIDI instrument, use a mouse to select notes to position on the musical staff, and alter pieces from the tutorial. ($99.95) Midisoft Corp., PO Box 1000, Bellevue, WA 98009. 1-800-776-6134, (206)391-3610.

Player Piano

This multimedia CD-ROM teaches users how to play their favorite songs on the piano. Featuring a unique learning environment, it adapts song-based learning sessions to match the students' evolving skill levels with the difficulty of the music while providing qualitative feedback on their progress. The software features forty songs, with easy and difficult versions for most. Classical, rock, traditional, and popular genres are covered. The Add Song feature enables students to easily import any MIDI song. Player Piano will then teach that new song in the same way as those included in the program. It analyzes the song's difficulty, respective to the student's skill level, and presents learning sessions to help the student learn to play the song. In addition, more than four hundred music theory lessons, based on contemporary learning methods, are included in the software. ($79.95) Midisoft Corp., PO Box 1000, Bellevue, WA 98009. 1-800-776-6134, (206)391-3610.

Digital Orchestrator Plus

Digital Orchestrator Plus is an inexpensive but powerful MIDI/digital audio sequencer for Windows. It allows for the recording or playing of independent digital audio tracks that can be synchronized with MIDI

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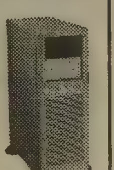

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Built-in EIDE & 2 UART 16550 Fast I/O
BUS: 3 PCI, 1 PCI/ISA, 3 ISA

MADE IN U.S.A.

SALE $149 (w/o Cache)
$219 (w/256K Pipeline)
$319 (w/512K Pipeline)

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Palo Alto Design w/ Power Supply	$69

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Sound Blaster 16 MCD	$68
Speakers 100w/160w	$40/48

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LYNX 486 PCI/VLB M/B SALE

Contaq Chipset. AWARD BIOS
CPU supports 3V/5V
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128MB (72 pins)
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Multimedia Kit	Call

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4M 1x36 70/60ns	$129/132
8M 2x32 70/60ns	$224/234
8M 2x36 70/60ns	$267/272
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16M 4x36 70/60ns	$534/548

- CPU and memory related products are not exchangeable or refundable
- Quantity is limited to stock on hand
- Not responsible for typos or technical errors
- All prices reflect COD cash discount
- Prices subject to change w/o notice

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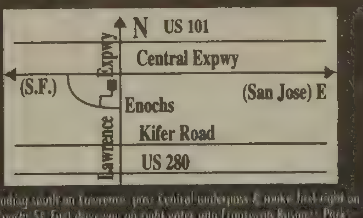

tracks. Capacity for digital tracks is limited only by a user's hardware. For example, a 90MHz Pentium can record approximately eight 22K mono tracks synchronized with MIDI tracks, or four tracks at a 44K sample rate. Full drag-and-drop digital audio editing features such as cut, copy, paste, and merge are also provided, permitting the layering of tracks to make space for additional recording. Also, unlimited blending (bouncing) of tracks is possible without the increased noise or signal degradation found in tape decks. Further features include support for multiple sample rates and the ability to import WAV files. ($159.95, owners of MIDI Orchestrator Plus can upgrade for $49.95) Voyetra Technologies, Inc., 5 Odell Plaza, Yonkers, NY 10701-1406. (914)966-0600, 1-800-233-9377.

Discovering Music

Discovering & Music
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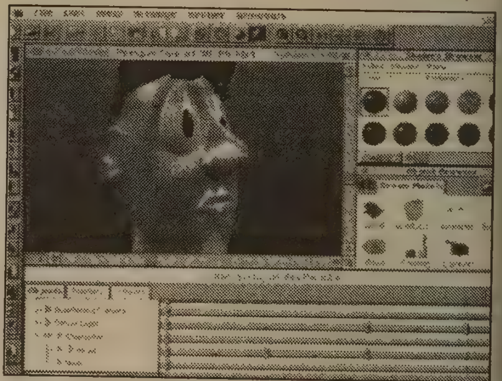
Music Conservatory
Music Wri

Discovering Music CD (for Windows) lets users jam with a virtual band, create and print sheet music, record and mix unique musical compositions, and explore music history and theory—all through four interactive modules: Jammin' Keys, Music Writer, Recording Station, and Music Conservatory. The Music Conservatory, for example, guides users through five musical arenas—The History of Music, Great Composers, Music Theory, Music Instruments, and Music Glossary—incorporating color graphics, audio examples, full-motion video, and hypertext links to stimulate the eyes, ears, and mind. Digital audio is used throughout for an enhanced listening experience. ($79.95) Voyetra Technologies, Inc., 5 Odell Plaza, Yonkers, NY 10701-1406. (914)966-0600, 1-800-233-9377.

Ray Dream Studio



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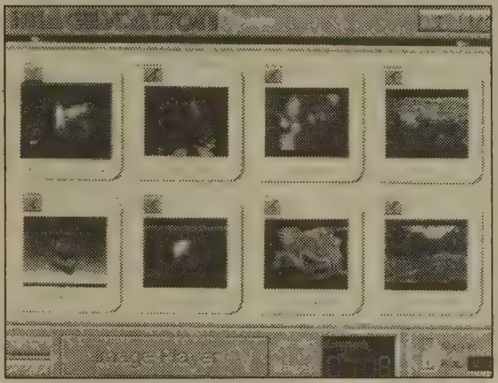
integrates four components—Ray Dream Designer 4, Ray Dream Animator, Dream Models, and Extensions Portfolio—that combine advanced illustration and animation features with unparalleled ease of use to meet the needs of both the experienced professional and the 3-D novice. This integration provides users with a faster, much more intuitive way to access system functions, reducing both the product learning curve and project completion time. ($499, for Windows and Macintosh) Ray Dream, Inc., 1804 N. Shoreline Blvd., Mountain View, CA 94043. (415)960-0768.

Sound Suite

Sound Suite for Windows is a large, versatile collection of business audio and multimedia presentation applications. It allows users to employ sound in numerous situations to take full advantage of their multimedia PCs. Sound Suite includes Voyetra's Multimedia Productivity Pack, MIDI Orchestrator Plus, and Music Gallery, in addition to a comprehensive library of graphic and video files. The Multimedia Productivity Pack alone contains fourteen programs that provide a complete set of tools for multimedia management in a uniform environment. ($199.95) Voyetra Technologies, 5 Odell Plaza, Yonkers, NY 10701. 1-800-233-9377.



KPT Power Photos II

KPT Power Photos II contains 375 RGB TIFF images that have been designed to be used in digital imaging, all on five Mac/Windows CD-ROMs. They contain powerful computer shortcuts, such as blue screen constructed transflectance channels, prepress-ready page layouts, and already color balanced and sharpened imaging. Power Photos II consists of vol-

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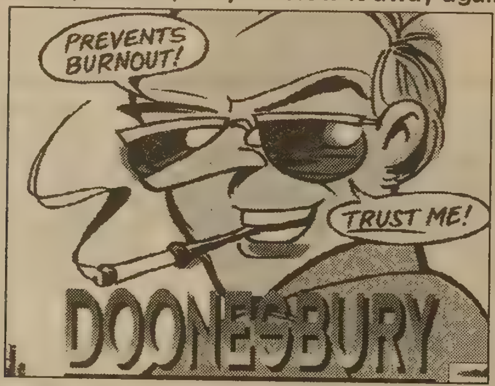
umes 6 through 10, covering images of Kids Toys & Backgrounds, Hot Rods, Bugs & Butterflies, Nostalgia, and Fall & Winter Holidays. In addition, there are time-saving extras like the shadows on all the objects fall consistently in the same direction, and convenient channels let users simply select and load images to obtain a clean silhouette. ($199) HSC Software, 6303 Carpinteria Ave., Carpinteria, CA 93013. (805)566-6200.

Screen Savers

Doonesbury

The Doonesbury Screen Saver is the first screen saver with a social agenda. The ten animated modules include CHIP Shot, wherein California peace officer B.D. shoots away your spreadsheet, retrieves and replaces it, only to blow it away again; Sin Lobby, with big-time reprobates Mr. Butts, Jay, Brewski, and Dum Dum swimming across your screen, showing cheerful disregard for their social consequences; and Grassy Knoll, which allows sufferers of information overload to get back to basics by teaming up with Zonker to watch the grass grow. Doonesbury Screen Saver is the first in Mindscape's Doonesbury Toonscapes series. Future titles include: The Doonesbury Election Game: Campaign '96 and Doonesbury Flashbacks: 25 Years of Serious Fun. ($34.95 for Windows floppy disk) Mindscape, Inc., 88 Rowland Way, Novato, CA 94945. (415)897-9900.


PREVENTS BURNOUT!
TRUST ME!
DOONESBURY

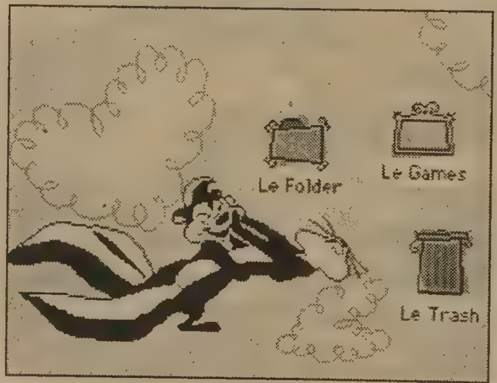
Totally Twisted

TOTALLY TWISTED
After Dark SCREEN SAVER

Berkeley Systems' new After Dark screen saver, Totally Twisted, features thirteen outrageously warped and fully animated displays, with dozens of custom options. With an interactive Mime Hunt, bungee jumping cows, and a pack of crass chameleons, this is a screen saver for those who walk on the weirder side of the street. Instead of Flying Toasters, Totally Twisted After Dark presents Flying Toilets, complete with occupants and customizable toilet paper. Hit the caps lock key and hear the computer flush your troubles down the drain. Other options include viewing the twisted underwater denizens of a toxic waste dump, Phlegm Boy, and Boris the cat meets Mowin' Man in Mowin' Boris. ($29.95 for Mac and Windows) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.

Looney Tunes

Beginning as cartoon shorts on the movie screen and then moving to the television screen, Looney Tunes are now available for the computer screen. The Looney Tunes Screen Saver features twelve animated modules based on Warner Bros.' timeless classics including Bugs Bunny, Daffy Duck, Elmer Fudd, the Road Runner, and Marvin the Martian, along with Sylvester and Tweety. Ever wonder where Wile E. Coyote got those amazing gizmos? Call ACME Home Shopping and choose from instant tornado seeds, rocket-powered roller skates, or assorted picnic ants—it can all be yours, but only while supplies last. There is also a lesson in cartoon science in Cartoon 101—a look at the "physical laws" that govern the world of Warner Bros. cartoons. ($29.99 for Windows and Macintosh; available on CD and diskette) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.



Trains: The Screen Saver

This Windows CD-ROM is the ideal screen saver for train lovers and hobbyists. It has several modules of railroading fun. MovieShow provides users with a library of digitized movies of real and model steam and diesel engines and trains or gives them the option of adding their own custom movie scripts. Slide Show contains a library of train photos and illustrations that play at random. CrissCross offers a top view of railroad trains going back and forth across the screen on tracks laid out in a maze of crossings. With Desktop Mover, trains run by, occasionally stopping to grab a chunk of the screen and carry it away. Six other modules ensure the action never stops. ($59.95) Abracadata, Ltd., PO Box 2440, Eugene, OR 97402. 1-800-451-4871.

Psychedelic Screen Saver Collection

The Psychedelic Screen Saver Collection v1.1 is a shareware collection of screen savers, each of which generates a different class of mesmerizing patterns. As the patterns materialize on the screen, the

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- Maxi Switch 101 Enhanced Keyboard
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Pentium® 120MHz
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- 2 (16550)Serial, 1 Parallel Ports
- Enhanced PCI IDE Controller
- Kelvin 64-Bit PCI w/2MB DRAM
- Maxi Switch 101 Enhanced Keyboard
- Premium Mid-Tower Case w/250W PS
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- Mouse & Keyboard Wrist Pads
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Intel Endeavor 586PCI w/16-Bit SC (Pipeline Burst)	$329
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2MB Upgrade Module for Stealth 64 Video	$144 95

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ACER 56L 15" (1280x1024) .28 NI 76Hz Refresh	$338
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ADI 5AP 17" (1280x1024) .26 NI	$729
GVC 14" (1024x768) .28 NI	$219
GVC 15" (1280x1024) .28 Ni	$289
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KFC 15" .28 NI (1280x1024) w/Digital	$348
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MAG DX15Fe 15" .28 NI (1024x768) w/Digital	$375
MAG DX17F 17" .28 NI (1280x1024) w/Digital	$689
MAG MX17F 17" .26 NI (1600x1280) w/Digital	$Call
Nanao F2-15 15" (1280 x 1024) .28 NI Digital	$565
Nanao F2-17 17" (1280x1024) .28 NI Digital	$Call
NEC XV15 15" (1280x1024) .28 NI 60Hz	$475
NEC XE15 15" (1024x768) .28 NI 76Hz	$579
NEC XE17 17" (1024x768) .28 NI 76Hz	$765
NEC XP17 17" (1280x1024) .26 NI up to 76Hz	$1039
Nokia 449E 15" NI .28 (1280x1024) Digital	$429
Nokia 447L 17" NI .28 w/built-in spkrs Digital	$685
Shamrock 14" NI .28 (1024x768) Digital	$229
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Shamrock 17" NI .28 (1280x1024) Digital	$565
Socos 17" NI .26 (1280x1024) Digital	$625
SONY 15SF NI .25(1280 x 1024) Digital	$479
SONY 17SF (1280x1024) .25 NI Digital	$849
SONY 17SE (1600x1280) .25 NI Digital	$Call
Viewsonic 14ES (1024x768) .28 NI	$275
ViewSonic 15ES (1280x1024) .28 NI Digital	$385
ViewSonic 17GS (1280x1024) .27 NI	$Call

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colors shift and undulate. The algorithms used in these screen savers were originally conceived as part of an art project that the programmer worked on at Evergreen State College. Available from *http://www.halcyon.com/pixel/psych.htm* and on CompuServe (search for psych11.zip), they are available in 16- and 32-bit versions for Windows NT, 95, and 3.1x and for Berkeley Systems' After Dark v3.0. ($20) NorthStar Solutions, PO Box 25262, Columbia, SC 29224. 1-800-699-6395. Mike Irvine, *pixel@halcyon.com* .

CD-ROM Drives

MultiSpin 4Xc

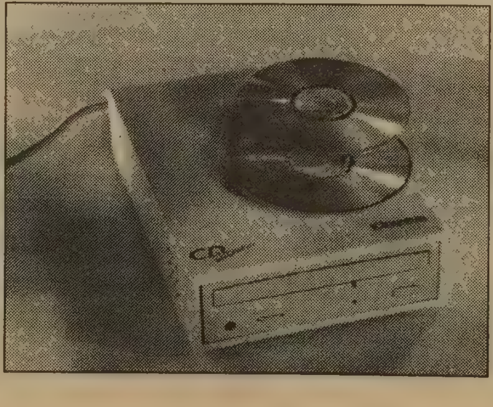
The MultiSpin 4Xc CD-ROM drive, a quad-speed, seven-disc changer, allows users to load multiple-disc applications simultaneously or store their favorite single-disc titles. Users also can play compact discs while running software applications. The ergonomically designed changer features a tray-loading mechanism, eliminating the need for caddies and disc cartridges and greatly reducing the potential for damage to the surface of the CD. Designed for multiple-platform compatibility, the MultiSpin 4Xc works with PC and Macintosh systems. ($349) NEC Technologies, Inc., 1255 Michael Dr., Wood Dale, IL 60191. (708)860-9500.

Panasonic KXL-D721 Bundle

The KXL-D721 multimedia bundle for portable computers includes Panasonic's KXL-D720 PCMCIA portable CD-ROM drive, a battery-powered speaker system, a Sound/SCSI card, and ESS Audio Sound Suite software. The double-speed CD-ROM drive weighs just 14oz. and operates on AC power or six AA batteries, providing up to two hours of use. A power save feature reverts to the sleep mode after four minutes of nonusage. The amplified speakers together weigh approximately .5lb and are powered by two AA batteries with a life span of thirty three hours at maximum volume. The ESS Audio Sound Suite software provides both play and record capabilities. The software features a mixer, audio clip library, talking calendar and clock, audio reminder for appointments, and a stopwatch/timer. Users can create their own recordings with a clip-on lapel microphone. The KXL-D721 is compatible with DOS, Windows 3.1, and Windows 95, and requires a minimum of one PCMCIA Type II slot. For systems without card managers, a point enabler device driver will automatically be loaded, allowing the CD-ROM drive to operate. ($599) Panasonic Communications & Systems Co., 1-800-742-8086.

CD Anywhere

CD Anywhere is a compact (9.5" x 6.13" x 2.25") quad-speed CD-ROM drive that plugs into the parallel printer port of any desktop, laptop, or notebook PC system. Installation is made easy with the use of QStart, a graphical interface configuration program designed by Kingston that automatically installs the FastCD driver files, searches for the location of MSCDEX.EXE files, alters both the CONFIG.SYS and AUTOEXEC.BAT files, and makes backup copies of these files. It comes with a printer pass-through connection for uninterrupted printer use; LED indicators, and is front loading without a CD caddy. Kingston also offers an optional Enhanced Parallel Port to ISA adapter, which takes full advantage of CD Anywhere's quad-speed performance at three times the performance of a standard parallel port. ($399; optional adapter, $39) Kingston Technology Corp., 17600 Newhope St., Fountain Valley, CA 92708. (714)435-2615.



Toshiba Internal CD-ROM Drive

The new XM-1302B is a quad-speed, super-slim internal CD-ROM drive designed specifically for notebook computers. Measuring only 17mm high, this drive was engineered using a very thin optical pick-up head and a newly developed drive mechanism. While designed to meet minimal size requirements, Toshiba developed the drive to fully meet MPC-3 specifications. Toshiba's variable speed playback system and digital servo control allow the drive to read data before the disc rotational speed reaches any of one, two, or four times standard rotational speeds. More particularly, the drive can read data once the disc rotational speed reaches a range of +/- 50% of each speed up to a maximum of five times rotational speed. In addition, the 5V power supply reduces power consumption to an average of 2.7W. Toshiba America Information Systems, Inc., Disk Products Division, 9740 Irvine Blvd., Irvine, CA 92718.

Printers

HP DeskJet 850 Printers

The HP DeskJet 850C and 855C are the fastest personal DeskJet printers ever and produce professional black text and color images that rival photographic printing. They both use a RISC processor, new print-head design, and firmware improvements to print black text at up to 6ppm and color

continued on page 26

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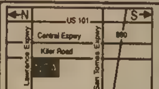

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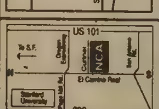

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Home Depot
Albrae
Costco
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880

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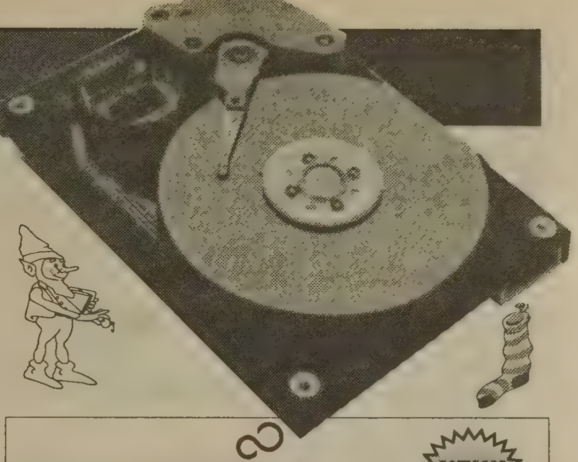
①

M1

HARD DRIVES



Quantum™

540MB SCSI-II 3.5"X1" Hard Drive

MAVERICK SERIES®
- QM30540MVS
- 14ms
- 3.5"x1"

$149

EXTERNAL SCSI DRIVE FOR PC OR MAC

ncludes:
- FWB HD Tool Kit(Mac only)
- SCSI cable
- Terminator

$197

2.2GB SCSI-II 3.5" Hard Drive

CAPELLA SERIES®
- VP32210S
- 5400RPM
- 8.5ms
- 3.5"

$609

EXTERNAL SCSI DRIVE FOR PC OR MAC

ncludes:
- FWB HD Tool Kit(Mac only)
- SCSI cable
- Terminator

$657

Seagate

4.3GB SCSI-II 3.5" Hard Drive

HAWK IV SERIES®
- ST15230N
- 5400RPM
- 9ms
- 512K cache
- 5 year warranty
- 3.5"

$949

EXTERNAL SCSI DRIVE FOR PC OR MAC

ncludes:
- FWB HD Tool Kit(Mac only)
- SCSI cable
- Terminator

$997

Maxtor®

850MB IDE 3.5"X1" Hard Drive

- 7850A
- 12ms
- Enhanced IDE
- 32K cache
- 2 year warranty

ENHANCED IDE

$175

WESTERN DIGITAL

635MB IDE 3.5"X1" Hard Drive

- 2635A
- 10ms
- Enhanced IDE
- 3 year warranty

ENHANCED IDE

Accept only the finest...
Caviar
WESTERN DIGITAL

$159

FUJITSU

NEW!

2.17GB SCSI-II 3.5" Hard Drive

ALLEGRO SERIES®
- 2915SAU
- 9ms
- 7200RPM
- 512K Cache

$629

EXTERNAL SCSI DRIVE FOR PC OR MAC

Includes:
- FWB HD Tool Kit(Mac only)
- SCSI cable
- Terminator

$677

IBM

1.0GB SCSI-II 3.5"X1" Hard Drive

DESK STAR XP SERIES®
- 10.5ms
- 5400RPM
- 3 year warranty
- 512K Cache

$249

EXTERNAL SCSI DRIVE FOR PC OR MAC

Includes:
- FWB HD Tool Kit(Mac only)
- SCSI cable
- Terminator

$297

See our catalog for a complete line of name brand hard drives...

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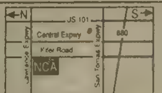

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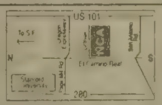

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(415) 493-2444 Fax (415)-493-2480

Oakridge Mall
Blossom Hill Rd.
NCA
US 101
Almaden Expwy

NCA SAN JOSE OPEN TILL 8:00 PM M-F
962 Blossom Hill Rd. (Across Oakridge Mall)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
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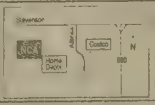

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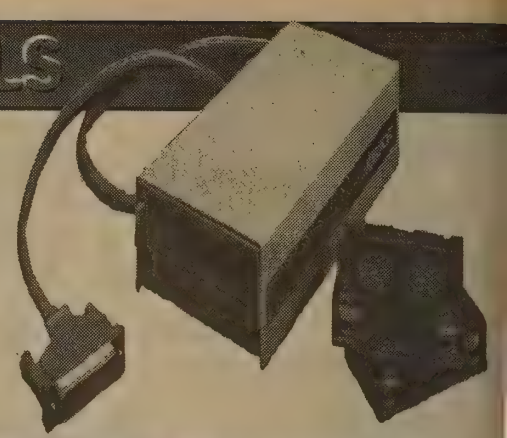
TAPE DRIVES, REMOVABLES, OPTICALS



Tape Backups

CONNER

800MB Internal Tape Backup System

- Double the speed of QIC-80
- Up to 800MB capacity with new TRAVAN technology
- Complite backup solution for both DOS andWindows
- Backup from local or network hard drives
- Fully compatible with Travan, QIC-WIDE, QIC-80, and Irwin AccuTrak 250 tapes
- Includes Backup Exec software for PC, mounting hardware, cables and manual

TAPE•STOR 800 **$159⁹⁵**

1.7GB Internal Tape Backup System

- Double the speed of QIC-80
- Up to 1.7GB capacity & a 19MB backup rate with QIC-WIDE media
- Complite backup solution for both DOS andWindows
- Backup from local or network hard drives
- Fully compatible with QIC-3020
- Includes Backup Exec software for PC, mounting hardware, cables and manual
- Meets Windows '95 requirements

TAPE•STOR 1700 **$239⁹⁵**

COLORADO® MEMORY SYSTEMS

350MB INTERNAL TAPE BACKUP SYSTEM

- Up to 350MB capacity using data compression
- Up to 9.5MB/minute backup speed
- 200MB backup in about 20 minutes
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

JUMBO 350 **$119⁹⁵**

800MB EXTERNAL TAPE BACKUP SYSTEM

- First with TRAVAN technology
- Up to 800MB capacity using data compression
- Up to 9.5MB/minute backup speed
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

T-1000E **$219⁹⁵**

HEWLETT PACKARD NEW!

2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- 2GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 183Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridge
- Compliant with all DDS DAT Drives

C1534A **$699⁹⁵**

4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- Typically 4GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 366Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridges
- Compliant with all DDS DAT Drives

NEW! C1536A **$799⁹⁵**

Removables / Opticals

THE IOMEGA ZIP DRIVE

iomega. NEW!

External SCSI-II 100MB Drive

- Smallest removable storage
- Easy to expand your computer's storage
- Backup quickly and easily
- Includes Zip Tools software
- Create a multimedia library
- Store large scanned or downloaded files
- Compatible with both System 7.X **AND** Windows

$199⁹⁵

SyQuest **EZ-135** NEW!

135MB 3.5" EXTERNAL SCSI-II SYQUEST REMOVABLE

External SCSI-II EZ-135MB Drive

- 13.5ms seek time
- 135MB Cartridge
- Cables
- Installation Software
- 1.9MB/sec sustained transfer rate - twice the transfer rate of the Zip Drive
- MTBF 200,000 hours

Happy Holiday Season

$229⁹⁵

135MB 3.5" INTERNAL IDE SYQUEST REMOVABLE

Internal IDE EZ-135MB Drive

- 13.5ms seek time
- 135MB Cartridge
- Cables
- Installation Software
- 1.9MB/sec sustained transfer rate - twice the transfer rate of the Zip Drive
- MTBF 200,000 hours

$189⁹⁵

IBM Imagestar Basic

230MB 3.5" Internal Optical Drive

With the advantage of SCSI performance, reliable storage at a low cost-per-byte, high capacity 230MB and a slim 3.5" format, the Imagestar 230MB Optical Disk Drive from Options by IBM is the perfect choice for all kinds of desktop applications.

- SCSI-II interface
- 230MB capacity per 3.5" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 40,000 MTBF
- 1 year warranty

$559⁹⁵

1.3GB 5.25" Internal Optical Drive

When you're looking for the versatility to handle all you large file needs, the multifunction IBM Imagestar 1.3GB Optical Disk Drive provides a perfect solution. Combines multifunction capabilities with a 1.3GB capacity - the only drive that you can use to transport large files on rewritable, CCW Write Once, Read Many (WORM) or permanent WORM media.

- SCSI-II interface
- 1.3GB capacity per 5.25" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 180,000 MTBF
- 1 year warranty

MO-DRIVE **$1699⁹⁵**

Recordable CD Drives

SONY *Sony Spressa 920 CD Recorder for PC*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Happy Holiday Season

Comes with Corel CD Creator software (a data editor, audio editor, & jewel case designer), making recording quick and easy.

- **CSP-920S**
- 650MB, 74 minutes audio recording
- 360ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, & 2x
- Includes 3 CD-R discs

NEW! **$1389⁹⁵**

HEWLETT PACKARD *HP SureStore CD-Writer 4020i*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with a complete software suite for creating custom CDs, along with the necessary media, cards, and cables to begin recording immediately.

- **C4324A**
- 650MB, 74 minutes audio recording
- <390ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, 2x, and 4x (600KB/sec)

NEW! **$1049⁹⁵**

Floppy Drives

TEAC

1.44MB 3.5"	$37⁹⁵
1.2MB 5.25"	$45⁹⁵
1.2/1.44MB Dual Drive	$91⁹⁵

See our catalog for a complete line of name brand tape backups, removables, opticals, & recordable CD drives...

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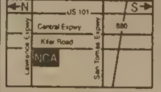

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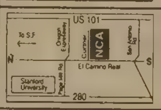
OPEN TILL 9:00 PM M-F



NCA PALO ALTO
3825 El CAMINO REAL (Curtner & El Camino)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
(415) 493-2444 Fax (415)-493-2480
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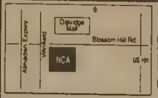

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962 Blossom Hill Rd. (Across Oakridge Mall)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
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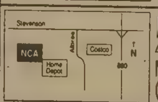

NCA FREMONT
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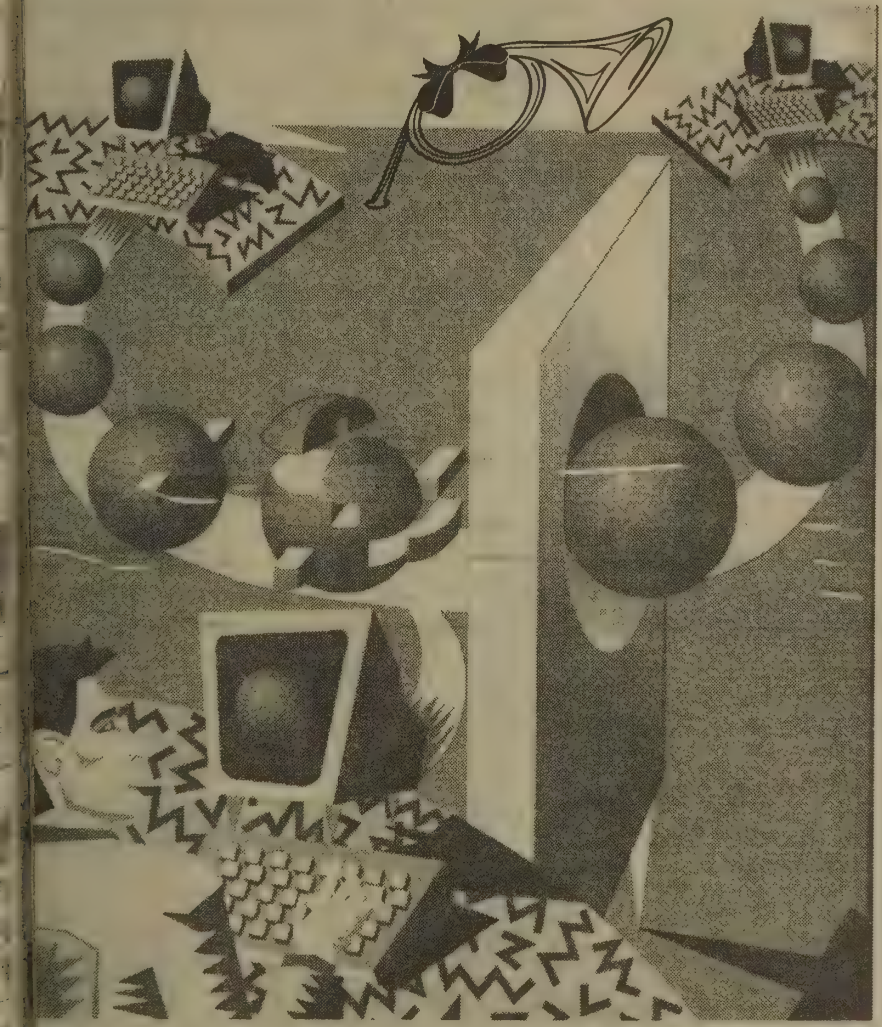
HIGH QUALITY PRODUCTS

novastor®
CORPORATION

BACKUP SOFTWARE FOR THE PROFESSIONALS

- Extremely Fast operation
- Full Mouse Support
- Intuitive point-and-shoot file selection
- Logging options for error reporting
- Full restore functions to different directories or files
- Automatic configuration
- Built-in scheduler and user-created macros for transparent operation
- Easy operation from batch files

NOVàWARE® Products:



Windows '95 NT Version True 32-Bit	$34.95
OS/2 Version	$64.95
MAC Version	$64.95
Novanet JR. 50 Users	$249.95
Novell-NLM Unlimited Users	$439.95

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our Computer Upgrade *SUPERMARKET!*™

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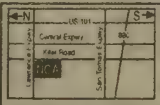

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US 101
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Lawrence Expwy
San Tomas Expwy

NCA SUNNYVALE

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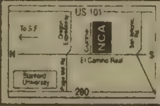

US 101
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El Camino Real
Stanford University
280

NCA PALO ALTO

OPEN TILL 8:00 PM M-F

3825 El CAMINO REAL (Curtner & El Camino)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
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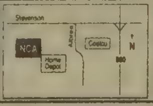

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CONTROLLER CARDS

SCSI CONTROLLERS

adaptec®

AIRport™ 2000

Wireless infrared port for simple, quick file transfer between PCs.

- Features APA-9320 infrared adapter
- Supports speeds from 9,600Kbps thru 115,200Kbps
- File transfer and synchronization software included
- Custom lens and two LEDs for increased range
- Three power options for flexibility
- Simple connections to the PC serial port
- Dual position design for convenience

AIRport 2000

NEW!

\$94^{95}

SCSI CONTROLLERS

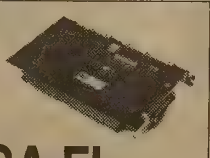
MODEL	DESCRIPTION	PRICE
APA-1460	Slim SCSI-2 PCMCIA SCSI Card	\$195^{95}
AVA-1505	TOTAL CD 16-BIT SCSI-II	\$49^{95}
AVA-1515	Total Connect ISA to SCSI host adapter w/ BIOS	\$85^{95}
1522	A-PLUS 16-BIT 7HD/2FD KIT	\$135^{95}
1542CP	ISA to Fast SCSI BUS Master	\$235^{95}
AVA 2825VL	TOTAL ADVANTAGE VL	\$155^{95}
2842A	Fast SCSI-II VESA	\$235^{95}
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	\$249^{95}
AHA-2940W	PCI FAST-WIDE SCSI	\$299^{95}
AHA-2940UW	Ultra Wide PCI host adapter	\$299^{95}
APA-348	SlimSCSI PLUS	\$119^{95}
APA-358	SlimSCSI EPP	\$155^{95}
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	\$177^{95}
3940	Twin Channel PCI	\$405^{95}
3940W	Twin Channel PCI wide	\$469^{95}
3985	PCI RAID Adapter w/ 3RISC Processors	\$709^{95}

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

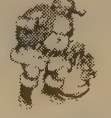
MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	\$115^{95}
DTC3274VL	SCSI-II Bus Mastering	\$159^{95}

qlogic Corp.



FAST!SCSI VESA FL

Host Adapter Card for the VESA Bus



- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

\$189^{95}

Host Adapter Card for the PCMCIA Bus	\$164^{95}
Host Adapter Card for the ISA Bus FL	\$115^{95}

FAST!SCSI PCI Basic

Host Adapter Card for the PCI Bus

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

\$119^{95}

FAST!SCSI IQ PCI Wide

Host Adapter Card for the PCI Bus

- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

\$209^{95}

FAST!SCSI IQ PCI-10

Host Adapter Card for the PCIA Bus

- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

\$205^{95}

BUSLOGIC

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP545C	ISA Bus Master Fast SCSI Adapter Kit	\$208^{95}
KP445C	Bus Master Fast SCSI Kit for VL Bus	\$195^{95}
KP757C	FASTWIDE SCSI Card	\$348^{95}
KP930C	32-Bit Bus Master FAST SCSI -PCI NEW!	\$144^{95}
KP946C	Bus Master Fast SCSI for PCI Local Bus	\$229^{95}
KP956C	WIDE PCI Card	\$289^{95}

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	\$25^{95}
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	\$44^{95}

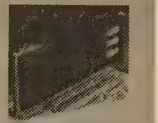
BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP510A	IDE Cache Contoller For PC/AT Sys.	\$89^{95}
KP410A	IDE Cache Controller for VLB	\$115^{95}
KP910A	IDE PCI Cache Controller	\$165^{95}

PROMISE TECHNOLOGY,INC.

IDE CACHING CONTROLLERS



IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	\$87^{95}
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	\$99^{95}
DC-420VLB	VESA IDE 512K Cache	\$95^{95}
DC-4030-VL-2	VESA IDE 2.88MB support 4HD/2FD	\$99^{95}
DC2032	ISA Caching controller	\$124^{95}
DC-2300+	E-IDE w/16550 IO	\$59^{95}
EIDE	*MAX*-16-bit enhanced IDE controller	\$24^{95}

gsi™

Intelligent Accelerator/IDE Boards

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	\$45^{95}
GSI 18	16-Bit 2 IDE Devices	\$35^{95}
GSI 21	16-Bit 2FD/Tape Backup	\$55^{95}
GSI 32	16-Bit Multi Port IDE/Tape & I/O	\$115^{95}
GSI 4C	16-Bit 8-IDE Devices	\$119^{95}
GSI 1645-V1	32-Bit VESA FAST ATA-2 E-IDE (2 DRIVE)	\$CALL
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13-Port Super I/O Card

4 Integrated NS16550 High Speed UARTs

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- 4 floppy
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- 1 Game

\$115^{95}

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DTC 2278D VESA Multi I/O 2s/1p/1g Enhanced IDE ... \$22^{95}

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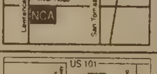

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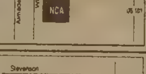

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CD-ROM Drives

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NEW!

6.7 Speed SCSI-II Internal CD-ROM Drive

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- SCSI-II 6.7 Speed CD-ROM
- 120ms/1000kb/sec
- MPC Level 3 compliant
- 256K buffer

$329.95

Quad Speed Enhanced IDE Internal CD-ROM Drive

5302B

- Caddyless
- **Enhanced IDE** Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed
- 256K buffer

ENHANCED IDE

$129.95

SONY

Quad Speed Internal SCSI-II CD-ROM Drive

- 600Kb/sec. transfer rate
- 190ms: access time installation software
- Caddyless

CDU-76S

$169.95

Quad Speed Internal Enhanced IDE CD-ROM Drive

NEW!

- 600Kb/sec. transfer rate
- 190ms. access time
- Caddyless

CDU-77E

ENHANCED IDE

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TEAC

NEW!

Six Speed Internal Enhanced IDE CD-ROM Drive

- 900Kb/sec. / 135ms access time
- 128K cache
- 100% Sound Blaster compatible
- MPC level 3 compliant
- Windows 95® compliant
- Video CD & photo CD compatible

ENHANCED IDE

Ultra Speed 6X -CD56E

$209.95

NEC

NEW!

Quad Speed Internal Enhanced IDE CD-ROM Drive

- 600Kb/sec. transfer rate
- 200ms. access time
- Caddyless
- 128K buffer

CDR-273

ENHANCED IDE

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Upgrade Kits

DIAMOND MULTIMEDIA

High Quality Multimedia Products

Quad-Speed Multimedia Kit — 500

NEW!

- Quad-Speed IDE CD-ROM drive
- Includes Compton's Interactive Encyclopedia
- Quick and easy installation

Includes: Compton's Interactive Encyclopedia

$219.95

Quad-Speed Wavetable Multimedia Kit — 7000

NEW!

- Quad-Speed IDE CD-ROM drive
- 16-Bit Wavetable sound card
- Powerful stereo speakers
- 22 best selling titles & 150 shareware titles
- Microphone & ergonomic joystick
- Works with all Sound Blaster compatible games
- Quick and easy installation

Includes: All Star Sports Collection by Accolade

$374.95

Eight-Speed Wavetable Multimedia Kit — 8000

NEW!

- Eight-Speed IDE CD-ROM drive
- 16-Bit Wavetable sound card with 3D sound
- Yamaha stereo speakers
- 5 best selling titles
- Works with all Sound Blaster compatible games
- Quick and easy installation
- Unlimited technical support

INCLUDES:
- Myst
- Rebel Assault
- SimCity 2000
- Compton's

$559.95

Turtle Beach Systems

Monte Carlo — While Supplies Last!

16-Bit Wave Audio Game Sound Card

- 16-Bit wave audio & CD-ROM interface
- Sierra Audio Rack
- V-Synth Wavetable software
- 50 trial games
- Wave SE sound editing software
- 100% game compatible

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Tahiti

Digital Audio Recording Card

- Audiophile quality 18-bit sound
- Hurricane™ architecture
- 20 MIPS Motorola 56001 digital signal processor
- 1 in, 2 out multiport MIDI interface (cable included)

$245.95

Maui — While Supplies Last!

Wavetable Synthesizer Upgrade

- Now you can have all of the power of today's hottest new sound cards, plus a few new wrinkles, and keep your old sound card around for games!
- Ability to add new instruments via our SampleStore™ sample RAM. Maui is definitely the best of both worlds!

$64.95

Sound Cards

CREATIVE — CREATIVE LABS, INC. — Sound BLASTER

Sound Blaster 16 Value Edition

16-bit, CD-quality stereo audio with IDE CD-ROM interface for any multimedia application. Includes free software: Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, Talking Scheduler and more! Affordable, CD-quality sound card upgradable to wavetable synthesis.

$94.95

Sound Blaster 16 SCSI-2

16-bit, CD-quality stereo audio with support for any SCSI-2 device - great for any multimedia application. Connect up to 7 SCSI devices with Adaptec controller. Includes microphone & free software: Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, Talking Scheduler and more!

$174.95

Sound Blaster 32

Wavetable synthesis, CD-quality, stereo audio for music, entertainment, and business applications. Includes free GamePak CD that include special versions of Doom, Heretic, WarCraft and Decent and Creative software including Ensemble, Soundo 'LE, Wave Studio, Text Assist, & Mosaic.

$159.95

Sound Blaster AWE32 *Plug And Play*

Wavetable synthesis with SoundFonts and CD-quality, stereo audio for music, entertainment, and business applications. Includes microphone & free software: Twelve Tone Systems sequencer & Creative Labs software including Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, & Talking Scheduler.

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Advanced GRAVIS Ultrasound MAX

16-bit wavetable, 16 stereo channels, expandable to 192 general MIDI instrument set, Dedicated Digital Sound Processor, integrated stereo.

$169.95

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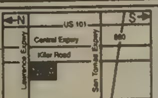

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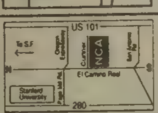

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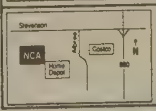

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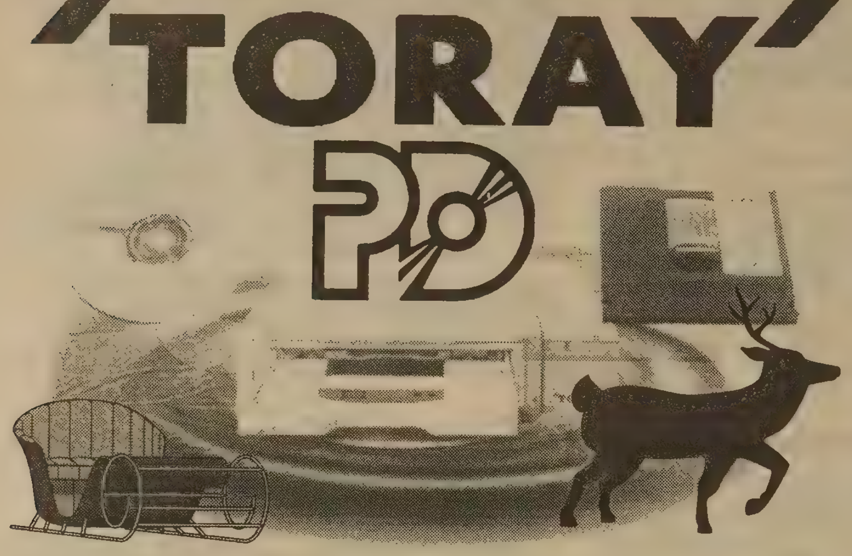

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SCSI-II Phase Change 650MB Rewritable Optical & Quad Speed CD-ROM In a Single Drive

Unlimited Storage & Backup Capacity

Optical Drive Mode erases & writes in a single pass, CD-ROM Mode is CD-ROM XA ready, MPC2 Compliant & Kodak Multi-session CD compatible

Headphone & RCA Jacks, Caddyless CD-ROM, DOS, Windows, OS/2 & Mac compatible

650MB Rewritable Cartridge $59 95

ONE YEAR WARRANTY FOR THE DRIVE, LIFETIME WARRANTY FOR THE MEDIA!!

	REWRITABLE SPECS	CD-ROM SPECS
• Transfer Rate	.870MB/s	600KB/s (4X)
•Avg. Seek Time	165msec.	195msec
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External with PC & Mac Drivers

$639 95

Internal Bare Drive with 650MB Cartridge

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ARTEC®

24-Bit True Color Flat Bed Scanner

$334 95

INCLUDES
- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors / 256 grayscale levels

Handheld Grayscale Scanner Kit for Windows

INCLUDES

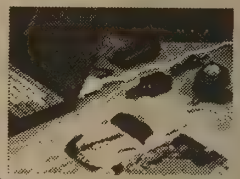
•SCANNER

ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

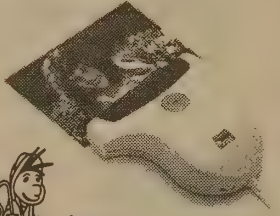
•SOFTWARE

-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
-GO-CR - OCR Software
-PhotoStacker Plus - JPEG Image Processing Software with AutoStitch

$109 95



Handheld True Color Scanner Kit for Windows



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INCLUDES

•SCANNER

-ViewScan™ Color 16M A2000C
-Missing Line Compensation
-MagicStitch &
TWAIN Compatible

•SOFTWARE

-GO-CR - OCR Software
-PhotoStacker Pro - Image Processing Software

Handheld Grayscale Scanner

INCLUDES
- ViewScan®/256S
- 800dpi
- 105mm scanning width
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$69 95

ARTEC® MOUSE

LE280

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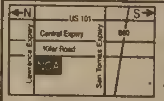

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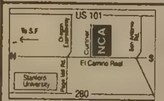

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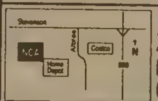

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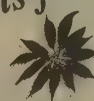
M8

COMPUTER UPGRADE SUPERMARKET

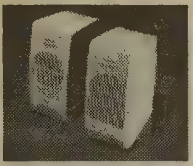
Dec. 25

ALTEC LANSING
MULTIMEDIA

Audio Solutions for Computers!



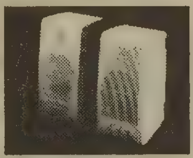
ACS51
Personal Computer Speaker System



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatiblility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

$69.95

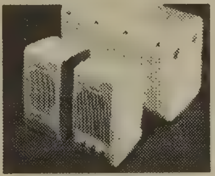
ACS52
Amplified Speaker System



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Dual function bass control for patented Phantom Sub Output and bass boost/cut
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatiblility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

$89.95

ACS53
Computer Speaker System with Subwoofer



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Seperate powered satellite speakers are electronically controlled and magnetically shielded
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Dual function bass control for patented Phantom Sub Output and bass boost/cut
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatiblility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

$124.95

ACS300.1

Computer Speaker System with Subwoofer

- Volume Control to adjust Combined speaker output
- A/B variable control for mixing the output of two sources
- Treble Control adjusts high frequency output
- Balance Control adjusts output level of each speaker
- Bass Volume for variable control of subwoofer output
- Headset input Jack bypasses speakers for private audio monitoring

$199.95

YAMAHA WAVEFORCE DB50XG

WAVE TABLE SOUND DAUGHTER BOARD

WAVETABLE SYNTHESIS UPGRADE FOR THE WORLD'S MOST POPULAR SOUND CARDS

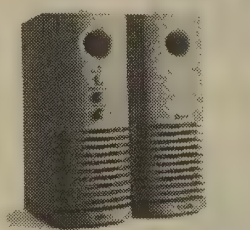
Maximum 32 notes, 16 parts (Dynamic Voice Allocation), 4 MB Voice ROM, Max. 676 voices, 21 drum kits, 11 types of reverb, 11 types of chorus, 42 types of variation

$179.95

YAMAHA POWERED MONITOR SPEAKERS

GET YOUR'S NOW BEFORE REBATE IS OVER! (rebate over Dec. 31)

YST-M5
Active Servo Technology



- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$28.95*

YST-M10

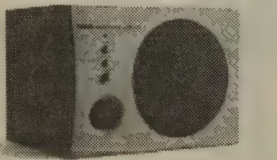
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$63.00*

*After Instant In-Store Rebate

YAMAHA POWERED SUBWOOFER

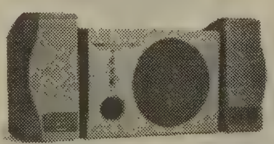
YST-MSW10



- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ± 10db

$169.95

YST-SS1010



YST-MSW10 subwoofer
PLUS YST-M10 speakers
(see descriptions above)

$219.95*

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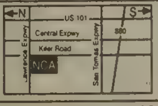

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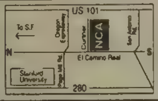

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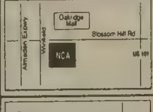

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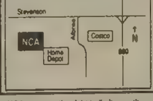

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MULTIMEDIA

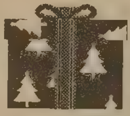
TeleMedia Office Suite

Multimedia Upgrade Kit - With Lotus Smart Suite!

- Quad-speed CD-ROM drive - 600KB/sec transfer rate, <200ms access time, motorized loading tray, Photo CD compatible
- 16-bit ISA, 48 kHz, stereo, CD-quality sound card - Wavetable upgradable, IDE CD-ROM interface, Yamaha OP-3, MIDI port, stereo line in/out, software configurable, jumperless installation
- Amplified 10 watt stereo speaker system - magnetically shielded, 100 - 15,000 Hz frequency response
- Includes Lotus SmartSuite: Lotus 1-2-3, Lotus Ami-Pro, Lotus Freelance, Lotus Organizer, Lotus Approach
- Includes PC-Sig's "World Of Games," over 550 games

$\$359^{95}$

TeleMPEG Pro



MPEG Video Graphic Board

Experience full screen, full motion, full color video on your PC and TV with TeleMPEG Pro. Unlike standard MPEG boards, TeleMPEG Pro delivers more than just the ability to play CD movies on your PC - TeleMPEG Pro has a special video out feature that lets you watch CD movies on your TV! You can also play live-action interactive games, watch feature length concerts and movies, or use interactive educational reference manuals - all in 16-bit CD quality sound.

- ISA bus interface
- MPEG Video Standard
- NTSC and PAL composite video output
- Full MPEG Standard (ISO11172) compliant
- Supports OM-1, new Windows multimedia specifications endorsed by Microsoft
- Supports CD-I, Karaoke CD, Video CD v2.0 formats
- 16-bit CD quality stereo sound
- Up to 65,000 colors
- Resolutions up to 1024x768
- Frames Per Second: 30fps (NTSC), 25fps (PAL), 24fps (film) with sustained frame rate
- High quality analog multiplexing video overlay
- Bus free operation without affecting the bandwidth

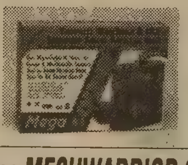
PC2 Multimedia PC. OS/2 GENERAL MIDI MPEG

$\$319^{95}$

TeleWave Q32/SRS

16-Bit Wavetable Sound Board

- Advanced DSP wavetable synthesis based sound board
- Three dimensional true to life SRS surround sound
- 16-bit CD-quality stereo sound
- 128 general MIDI instruments with 51 drum kits
- 100% Sound Blaster, AdLib compatible
- 32 note polyphony and 16 MIDI channels
- Stereo sampling rates from 4 kHz to 48 kHz
- General MIDI & MPU-401 compatible
- Easy installation and jumperless configuration
- Bundled software worth over $900



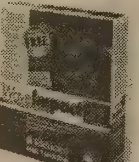
Includes MECHWARRIOR 2!

$\$135^{95}$

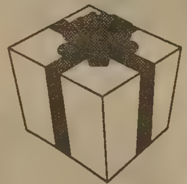
WaveImpact 32

Wavetable Sound Daughter Board

- Advanced DSP wavetable synthesis daughter board
- 32 note polyphony and 16 MIDI channels
- 128 general MIDI instruments with 51 drum kits
- General MIDI & MPU-401 compatible
- Plug & Play onto TeleSound Pro 16 or Sound Blaster 16 compatible sound board with wave connector
- Includes MIDI Orchestrator Plus, a professional-quality MIDI sequencer



$\$59^{95}$



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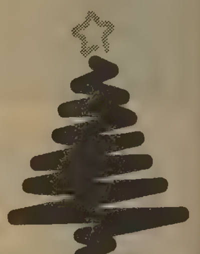
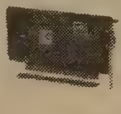


GRAPHICS PRO TURBO

Ultimate True Color Performance For The Graphics and Multimedia Professional

- All ATI graphics accelerators are optimized for Windows '95 application performance.
- PCI version features plug and play support for Windows '95 and is a licensed Windows '95 product
- Ideal for CAD users, designers, and power users
- High performance 64-bit graphics acceleration
- Vivid true color graphics and sharp image definition
- Up to 16.7 million colors at 1280x1024 (800x600 for 2MB)
- Up to 100Hz refresh rates to help reduce eyestrain
- 2MB (upgradable) and 4MB VRAM
- Extensive Windows utilities



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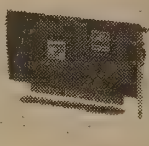
2MB VRAM *PCI, ISA,VLB* $\$324^{95}$

4MB VRAM *PCI, ISA,VLB* $\$455^{95}$

GRAPHICS XPRESSION

Value Packed 64-bit Graphics and Multimedia Perfomance

- Ideal for Windows or games users
- Fast 64-bit graphics acceleration
- Brilliant colors and sharp images
- Up to 16.7 million colors at 800x600 (with 2MB)
- Up to 75Hz refresh rates to help reduce eyestrain
- 1MB (upgradable) and 2MB DRAM
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB and ISA versions



2MB DRAM *VLB* $\$189^{95}$

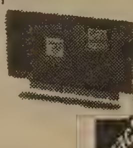
SPECIAL PRICE
While Supplies Last!

2MB DRAM *PCI, ISA* $\$199^{95}$

WINTURBO

Fast 64-bit VRAM Graphics Accelerator

- Ideal for users who need fast performance at an affordable price
- Ultra fast 64-bit graphics acceleration
- Vivid colors and sharp image definition
- Up to 16.7 million colors at 800x600
- Up to 100Hz refresh rates to help reduce eye strain
- 2MB VRAM (non upgradable)
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB, and ISA versions



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2MB VRAM *PCI, ISA,VLB*

$\$275^{95}$

VIDEO-IT!

Low Cost, Full Motion Video Capture and Compression Card for Windows

- Award-winning VIDEO-IT! is ATI's complete and affordable desktop video solution for PC users.
- Capture and compress motion video in a single step, reducing storage costs and recording time.
- Create dynamic, custom videos with your PC.
- Watch and record video from various sources including cameras, VCRs, and camcorders.
- Capture still images for inclusion in Windows applications such as databases or letters.
- Simple to install and easy to use.
- Comes complete with **MEDIA**CAPTURE and **MEDIA**MERGE, ATI's video editing software and Macromedia ACTION! V3, multimedia presentation software
- Available in ISA version.

ISA

$\$244^{95}$

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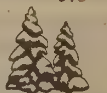
NEW!

True color graphics accelerator for Macintosh design and publishing professionals

- Designed specifically for the Power Macintosh 9500
- Superior 64-bit acceleration
- Vivid true color graphics and sharp image definition
- Coachmarked and task-assisted AppleGuide implementation
- Up to 16.7 million colors at 1152x870 (832x624 for 2MB)
- High refresh rates to reduce eye strain
- 2MB (upgradable) and 4MB VRAM
- Comprehensive control panel for frequently used features



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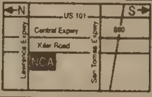

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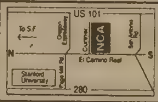

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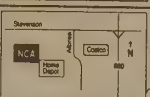

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VIDEO CARDS

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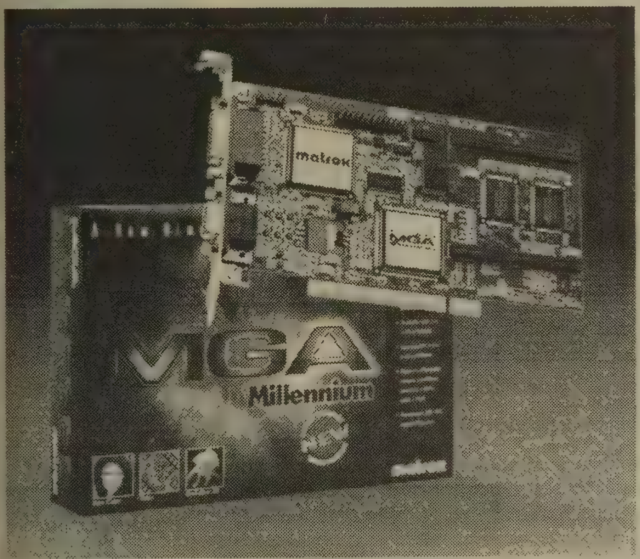
In Stock!

Introducing MGA Millennium: The new dimension in graphics acceleration

NEW!

Fast acceleration for graphics, video and 3D at a low cost



- Includes FREE enhanced version of NASCAR® Racing and much more!
- MGA 64-bit graphics processor (MGA-2064W)
- Dual ported Window RAM (WRAM) memory technology
- Optimized PCI local bus design
- Accelerated true color, video, 3D and DOS performance
- Resolutions up to 1600x1200 in 256, 65K, 16.7M colors
- 120 Hz flicker-free screen refresh at 1024x768
- Up to 220Mhz DAC for 85Hz refresh at 1600x1200
- Base versions available with 2 or 4MB WRAM
- Upgradable to 4 or 8MB WRAM

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PCI version
$335.95

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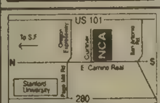

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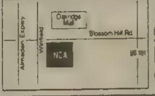

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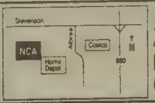

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SIGMA DESIGNS®

Graphics Accelerator Card With MPEG Playback

ReelMagic RAVE SUPER DEAL! VLB **$199.95**

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Creative Multimedia
Masters Golf
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Flash Traffic
Man Enough

Virgin
Conspiracy

Crystal Dynamics
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Intellimedia
Cowboy Casino

ReadySoft
Space Age

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Return to CyberCity

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Apex
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Tri Digital
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RealMagic Hardware
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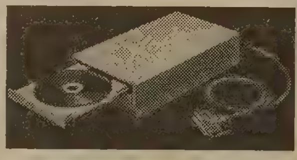
Any Title, ONLY $29.95

Addonics

Portable External Quad Speed Parallel Port CD-ROM Drive

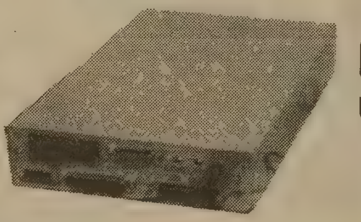
- 250msec. Avg. Access Time, up to 900Kb/s Transfer Rate
- Portable quad speed ATAPi CD-ROM drive - use anywhere
- CADDYLESS - Front tray loading mechanism
- Easy to use - no jumper ID setting
- Built in switchable power supply (100-240 volts)
- Audio output (RCA jack) for audio CD playback
- Concurrent disk access and printing
- Includes cables, driver, and installation disk



$310.95

Portable External Quad Speed Parallel Port CD-ROM Drive with 16-Bit Sound

- Same as Above *PLUS*
- Audio Recorder & Reminder
- Record Control & Extended Recorder
- Audio Clip Library
- Chime & Stopwatch
- Talking Calculator & Talking Clock
- Timer & Mixer
- Volume Control



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miro VIDEO DEDICATED video CAPTURE CARDS

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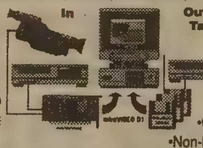
miroVIDEO DC1

Video Digitizing Directly To Your Hard Disk • Overlays, Titles, Special Effects • Super VHS Quality, PAL/NTSC Video Output

INCLUDES ADOBE PREMIER & FLYING FONTS PRO 3-D ANIMATION SOFTWARE!
MANUFACTURED IN GERMANY!

Hardware Highlights:
- Adjusts video filter
- Digital video encoder
- Supports all video formats
- Compatible with all graphics bo
- On-board Motion JPEG compre



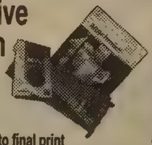
State-Of-The-Art Features:
- No generation loss
- Digital video back up
- Great transition effects
- Instant access to any frame
- Only One VCR for recording & playback
- Non-linear video editing on any Windows PC

$429.95 NEW LOWER PRICE!!

Miro's DC1 tv Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video Output And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

miroVIDEO DC1 pro

The Most Comprehensive Desktop Video Solution



- Software for video & sound editing
- Combine analog & digital sequences
- Automate final edit decision list assembly into final print
- Frame-accurate controll of multiple analog & digital video sources

Miro's DC1 tv Video Capture Board and Miro's VIDEO-Mouse bundled! Complete hardware & software pakage for controlling & editing video from analog & digital sources! It's so simple to create professional quality videos!!

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VOICE MAIL • SPEAKER PHONE • FAX-MODEM • WAVETABLE SOUND • INTERNET ACCESS

28.8 V.34 Communications Center

- User friendly interface
- Multitasking capabilities
- IBM MWAVE DSP-2789 processor (upgradeable)
- Full Duplex Speaker Phone
- Integrated Voice Mail up to 999 boxes
- Automatic Modem/FAX/ Voice operation
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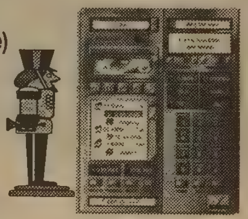

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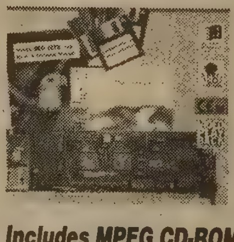
Graphic Card, Video Scaling, Video Capture & TV Tuner All in One!

5-IN-1 SINGLE SLOT SOLUTION!

- 2 Meg DRAM Windows Accelerator
- Cable-ready TV tuner with 100-station memory
- Video scaling provides full-screen video at 30FPS
- Still-frame video capture 640x480 @ 16.7 million colors
- 30fps video capture- 320x240 @ TV quality
- Feature connector for MPEG player boards
- Includes MPEG sampler on CD-ROM
- MPEG playback w/ software included



$379.95

Includes MPEG CD-ROM & Compton's Interactive Encylopedia

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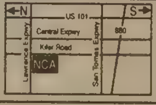

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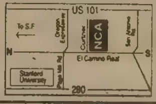

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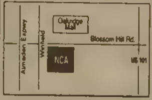

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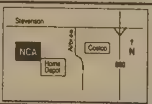

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CONSUMER ELECTRONICS

17" SVGA COLOR MONITOR
- **447X**
- 1280x1024
- .25dpi •110Hz
- Non-Interlaced

$969.95

17" SVGA MONITOR W/BUILT-IN SPEAKERS
- **447L**
- 1024x768
- .28dpi •80Hz
- Non-Interlaced

$685.95

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- **445X**
- 1600x1280
- .25dpi •120Hz
- Non-Interlaced

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MAG INNOVISION

17" SVGA COLOR MONITOR
- **DX17F**
- 1280x1024
- .28dpi
- Non-Interlaced

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21" SVGA COLOR MONITOR
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- 1600x1280
- .26dpi
- Non-Interlaced

$1709.95

Princeton Ultra 17 by MAG

17" SVGA COLOR MONITOR
- 17" SVGA color monitor
- 1280x1024
- .28dpi
- 76Hz refresh rate
- Non-interlaced
- Microprocessor-based digital controls

$599.95

DIAMOND
Accelerating in Graphics & Multimedia

STEALTH 64 VIDEO PCI/VLB
- 64-bit graphics processor technology
- Fast, flicker-free refresh to 120Hz
- 24-bit true color in Windows
- Windows Virtual Desktop

2MB VRAM $328.95
4MB VRAM $474.95

STEALTH VIDEO 3200 PCI/VLB
- Real-time digital video acceleration
- 64-bit performance
- Flicker-free refresh to 120Hz
- Software MPEG playback
- S3 Vision968 chipset

2MB VRAM $279.95

STEALTH 64 DRAM PCI/VLB
- Fastest 64-bit performance
- Fast, flicker-free to 120Hz
- 24-bit true color in Windows
- Windows virtual desktop
- Up to 16.7 million colors

1MB DRAM $137.95
2MB DRAM $188.95

Hercules
The Fastest Real-World Windows Accelerator

STINGRAY PCI
- 64-bit graphics processor technology
- Fast, flicker-free refresh to 120Hz
- 24-bit true color in Windows
- Windows Virtual Desktop

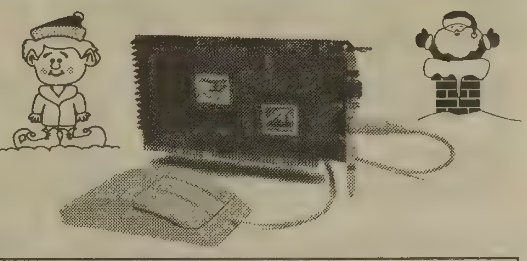
S1202V-2MB DRAM $197.95
S801-1MB DRAM $104.95

HERCULES GRAPHITE TERMINATOR
PCI GT1202-2MB DRAM
- The complete 64-Bit solution
- SuperStable refresh rates up to 150Hz
- S3 Vision964 processor
- 170MHz IBM RGB Palette DAC

$188.95

HERCULES DYNAMITE
VLB D702-2MB DRAM
- 1280x1024 up to 16.7 million colors
- Refresh up to 120Hz
- 2 year warranty

$192.95



Number Nine Computer Corporation
Excellence in PC Graphics

9FX MOTION 771 PCI/VLB
- Resolutions up to 1600x1200
- Refresh rates up to 150Hz
- Resolution exchange, true hardware zoom
- Energy star compliant
- 5 year warranty

2MB VRAM $289.95
4MB VRAM $439.95

9FX VISION 330 PCI/VLB
- Resolution exchange
- True hardware zoom
- Place windows
- Stop box
- Instant status
- ColorPerfect
- Monitor adjustment
- Energy Star

1MB DRAM $139.95
2MB DRAM $189.95

IMAGINE 128 PCI
- New performance standard w/128-bit accleration
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and Imagine 128 access
- 65,536 colors (16BPP) up to a resolution of 1600x1200 pixels, 16.8 million colors (32BPP) up to 1152x864 pixels
- Refresh rates up to 100Hz
- Simultaneous processing of sixteen 8-bit, eight 16-bit or four 32-bit

4MB VRAM $659.95

ATI TECHNOLOGIES INC.
Blazing performance and true color at an amazing price!

GRAPHICS PRO TURBO PCI/VLB/ISA
- Ultra high resolution
- Vivid true color
- Blazing 64-bit speed
- Enhanced productivity in Windows
- Easily move between high resolution & true color
- Improved motion acceleration

2MB VRAM $324.95
4MB VRAM $455.95

GRAPHICS EXPRESSION 2MB DRAM
- Up to 1280x1024
- 256 to 16.7 million colors
- Instant Windows mode switching
- Up to 75Hz flicker-free display

VLB $189.95
PCI/ISA $199.95

WIN TURBO PCI/VLB/ISA
- Up to 1280x1024
- Full acceleration up to 16.7 million colors
- Flicker free up to 100Hz
- WinSwitch instand mode switching

2MB VRAM $275.95

See our catalog for a complete line of name brand video products...

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COMMUNICATIONS

AITech

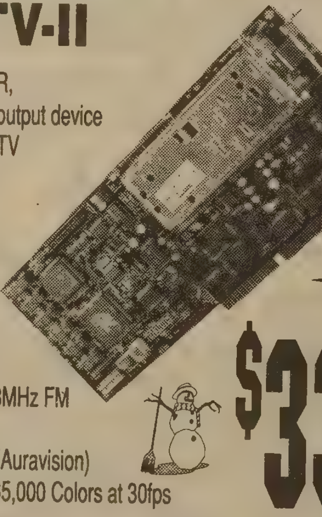
Road Warrior Presenter

- ASTOUND 2.0 MULTIMEDIA PRESENTATION SOFTWARE
  - Slide Sorter Feature
  - Multimedia Effects Built-in to Templates
  - Import Microsoft Powerpoint or Lotus Freelance Presentations
- SLIDEWORKS SOFTWARE & REMOTE INFRARED POINTING DEVICE
  - 40 ft. Remote Range
  - Plugs directly into mouse port
  - No Special Software Drivers
- MULTIPRO CTV EXTERNAL SCAN CONVERTER FOR COMPTER TO NTSC (TV) OR S-VIDEO OUTPUT
  - Supports 640X480 resolution, up to 16,7 million colors
  - Simultaneous TV & VGA Monitor Display
  - Freeze & Grab TV Images for graphic uses
  - Screen Display adjustments with Over/Underscan Controls

$354 95

WaveWatcherTV-II

- 2 External Composite Video Inputs for VCR, Camcorder, Laserdisc or any digital video output device
- 75ohm F-Connector for Antanne or Cable TV
- 2 Line-Level Inputs (use both for Stereo)
- 1 Line-Level Output
- NTSC or PAL Tuner
- Cable Ready With 181 Channels
- VHF Low Band, VHF High Band, UHF
- D-Sub Connector for VGA Monitor
- Stereo Phone Jack for speaker connection
- Radio Tuner Frequency Range 80MHz-108MHz FM
- 16-Bit RGB Frame Capture
- Software & Hardware Video Compression (Auravision)
- 320X240 65,000 Colrs at 15fps, 160X120 65,000 Colors at 30fps



$334 95

Plus NO SYSTEM RAM LIMITATIONS & NO VIDEO MOTION ARTIFACTS!

Pocket Scan Converter

PSC-1106

Play PC Games on TV!!
Converts VGA to TV or VCRs
UP to 16.7 Million Colors

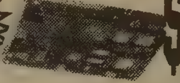
- FCC B Certified
- Vertical Refresh 60Hz
- Horizontal Sync. 31.5KHz
- Up to 640X480 Screen Resolution

$99 95

Xircom

NEW!

MODEL 6408



$369 95

ISDN INTERNAL TERMINAL ADAPTER

Uses Basic Rate Interface, Up to Six Times Faster than a V.32 modem, Compatible with DOS, Windows 3.1, NT 3.5 & Workgroups 3.11Comes with Remote Access Software

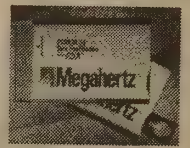
Megahertz

Linking Your Worlds

28.8BPS PCMCIA FAX MODEM

- 28.8bps. V.34/V.42bis
- Auto Installation
- Hot Insertion
- Cellular Compatiblity
- Includes XJACK,a retractable RJ11 connector that pops out to hook into a standard phone cord
- Fax Software Included

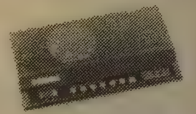
INCLUDES X JACK



$299 95

USRobotics

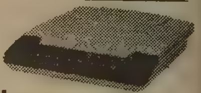
The intelligent Choice in Data Communications



HIGH SPEED FAX/MODEMS

14.4 Sportster Si 14.4 Internal/External	$49 95 / $59 95
14.4 VI Voice Mail Internal	$111 95
28.8 VI Voice Mail Internal/External	$211 95 / $227 95
Sportster 14.4 V.32/V.42 Internal/External	$97 95 / $111 95
Sportster 28.8 V.34 Internal/External	$189 95 / $210 95
Courier RI - ISDN Internal Terminal Adapter	NEW! $571 95
Sportster I - ISDN	COMING SOON!
28.8 V.34 PCMCIA Fax/Modem w/Data View	$331 95
Sportster 14.4 PCMCIA Fax/Modem	$188 95
Mac & Fax 14.4bps External modem for Mac	$121 95
Mac & Fax28.8 V.34 External modem for Mac	$211 95

Hayes®



The Fastest Hayes™ Modem For Business Communications.

	Int./Ext.
Accura 14.4 V.42 Fast Internal/External	$88 95 / $104 95
Accura 28.8 V.34 Fast Internal/External	$175 95 / $209 95
Optima 28.8 V.34 Fast Internal/External	$369 95 / $419 95

PRACTICAL PERIPHERALS®

14.4 Internal Modem for PC (MC144HC)	$84 95
14.4 External Modem for PC (MC144MT)	$99 95
28.8 V.34 External Modem for PC (MC288MT)	$238 95
28.8 V.34 Internal Modem for PC (MC288HC)	$219 95
14.4 PCMCIA Fax/Modem	$161 95

SupraFAXModem

Supra Corporation

UNLOCK THE WORLD OF DESKTOP COMMUNICATIONS™

14.4 Plus Internal & External EXPRESS Fax/Modem for PC — Plug & Play!

Internal Includes Software Included: COMit™ (Windows), FaxTalk® (Windows), CompuServe® Information Manager — **$74 95**

External Includes Software Included: COMit™ (DOS & Windows), WinFax Lite™ (Windows), FaxTalk® (DOS) , Cables & Manuals — **$92 95**

28.8 Internal & External Fax/Modem for PC — V.34 Plug & Play!

Internal Includes Software Included: COMit™ (DOS & Windows), WinFax Lite™ (Windows), FaxTalk® (DOS) , Cables & Manuals — **$149 95**

External Includes Software Included: COMit™ (DOS & Windows), WinFax Lite™ (Windows), FaxTalk® (DOS) , Cables & Manuals — **$169 95**

14.4 & 28.8 External Fax/Modem for Mac

14.4 Includes Five Year Warranty, Cables and Manual, Top-Rated Data/Fax Software, Easy to Install and Easy to Use! — **$99 95**

28.8 Includes V.34 Software Included: Microphone LT, FAXcilitate™, CompuServe Information Manager™, Cables & Manuals — **$179 95**

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COMMUNICATIONS

FAX/MODEMS

MOTOROLA

NEW! ISDN Terminal Adapter - Bitsurfer PRO

- Multilink PPP provides 115.2K Kb/sec asynch throughput and synch BONDING protocols offer 128K Kb/sec
- Supports two analog POTS PORTS
- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software

Includes Built-In NTI!

Windows 95® READY!

$\$399^{95}$

Bitsurfer $299.95

NEW! 14.4 PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps

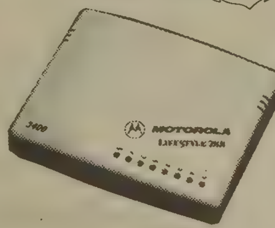
* Direct connect to Motorola MC^2 cellular phones manufactured after 6/92

$\$224^{95}$

No Cellular Adapter Required

NEW! 28.8 Data/Fax Modem

- Powered by Mototola 68356 24-bit data pump with RISC technology
- True ITU V.34 technology
- High speed data modem - 28,000 bps to 300 bps
- ITU V.34, V.32bis, V.22, V.23, V.21; Bell 212, 103
- High speed fax modem with error correction
- Fully ITU Group III compatible; compatible with all Class 1 fax software packages
- ITU V.42/V.42bis and MNP 2-5 error correction and date compression
- Automatic rate adaption - adjusts the speed up or down for line conditions
- Caller ID, password, callback security and help screen functions
- Hayes compatible commands
- RS232 cable included for MAC version
- No more fuzzy faxes with Clear Fax™
- Asyncronous data rates up to 115,200 bps result in savings on line charges
- Error-free data transfer provides optimum throughput and performance
- Maximizes speed and minimizes errors for the most economical and error-free connection possiblae
- Identifies a caller before you answer the phone with a distinctive ring
- Can record who called while you were out
- Prevent unauthorized connections - supports 2 user defined passwords, and 2 callback numbers
- Online help provides quick command reference with search capability
- Conveneint modem configuration from your keyboard



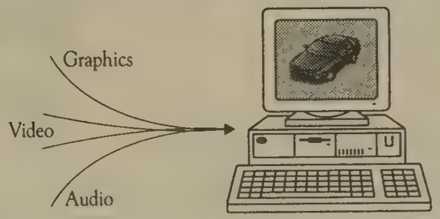
PC INTERNAL	PC EXTERNAL	MAC EXTERNAL
$\$165^{95}$*	$\$179^{95}$*	$\$214^{95}$

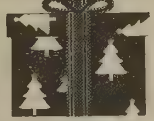
* After $20 mail-in rebate - expires 1-31-96

ISDN DIGITAL NETWORK

PACIFIC BELL FASTRAK℠ ISDN

Fast and Fun Access to the Internet





Pacific Bell *FasTrak ISDN* allows you to access the Internet ***faster than any modem.*** ISDN gives you graphics in an instant—you no longer have to wait for Web pages to download slowly over an analog modem. You are up to speed with ISDN. See NCA to order your Pacific Bell *ISDN*, or call ***(408) 522-8672.***

Technology ISDN BRI

Product	Monthly	Installation
ISDN Single line ISDN for business includes one metered business line	$24.82 plus usage/ $26.04 if multiple lines	$70.75 for one metered business line[1]
Home ISDN Single line ISDN for home	$24.50 plus usage[2]	$34.75 for one metered residence line[1]

[1] $125 ISDN installation fee waived for a two-year service period.

[2] Usage charged between 8 a.m. – 5 p.m., Monday through Friday.

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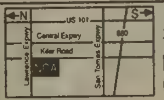

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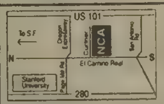

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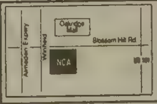

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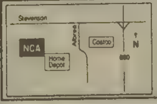

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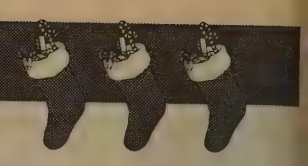
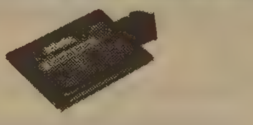
HIGH QUALITY UPGRADES



ActionTec

Technology in Motion



ActionTec products feature 100% guaranteed system compatiblity, automatic installation and industry leading performance. For unparalled value, $200 to $600 in free software from leading suppliers such as Roland, Traveling Software, Spry, Microsoft, Corel and many more are included free! ActionTec products come standard with the following features:

- Guaranteed system compatiblity
- True Plug & Play capability
- 5-year warranty
- Low power consumption
- Auto install
- Value-added software

DataLink 14,4bps Fax, Modem, DataLink 28.8bps (V.34) Fax/Modem LC

ActionTec's high performance fax modems give you worldwide fax and modem capabilities. ActionTec's simple to use fax modems require no external power and feature innovative power management that automatically powers down the fax modem when not in use, saving valuable battery life on portable computers. All ActionTec modems ship with Q Modem PRO, fax and data communications software, along with free-value-add software to enhance the products performance and connectivity.

Free Value-Add Software (28.8 model only)

- **Traveling software's LapLink for Windows**-remote access and file synchronization software-**A $199 value!**
- **Mosaic by SPRY**-Internet software-**A $49 value!**
- **SideKick by Borland**-personal organization software-**A $99 value!**
- **Compuserve, Prodigy, America On-Line and Genie** On-Line services-**A $200 value!**

14.4BPS	28.8BPS
$104.95	$209.95

ComNet 14.4 and 28.8 Fax Modem/Ethernet Combination Card

ActionTec's ComNet Fax modem and Ethernet combo adapters give the highest level of performance, ease of use and value available. The ComNet combines fax, datacomm and ethernet on a single PC card and is available in two versions: the 14.4 combo and the 28.8 combo. The ComNet cards ship with all the software and components necessary to fax, send data and log on to a Network, plus we included value-add software

Free Value-Add Software

- **Traveling software's LapLink for Windows**-remote access and file synchronization software-**A $199 value!**
- **Mosaic by SPRY**-Internet software-**A $49 value!**
- **SideKick by Borland**-personal organization software-**A $99 value!**
- **Compuserve, Prodigy, America On-Line and Genie** On-Line services-**A $200 value!**

14.4BPS	28.8BPS
$294.95	$399.95

VIRTUAL i-O

VIRTUAL ENTERTAINMENT

Imagine that the Ultimate PC gaming peripheral is also a personal projection TV

Now imagine only eight ounces!

Virtual i-glasses!™

Optics
- Heads-up see-through distortion-free display
- Field of view: 30º each eye
- Fixed focus at 11' to minimize eye strain
- Requires no IPD adjustment
- 100% stereo overlap
- Can be worn with eyeglasses

Displays
- 2" full color 0.7" LCDs
- Resolution: 180,000 pixels per LCD panel
- Input: 1 NTSC channel, field sequential
- Video Mute™

Audio
- Stereo RCA connectors, 1 volt p-p
- Frequency response 20Hz-20kHz
- Excellent 3-D audio spatialization

Mechanical
- Ergonomically designed for comfort
- Weight: 8 ounces
- Clip-on immersion visor

Video Interface
- Video: single channel RCA input
- Audio: stereo RCA input

3-D Capable
- True stereoscopic imaging
- Field sequential-flicker free

Electrical
- Power supply: 110VAC in/6VDC out
- Power consumption 2.5 watts
- Easily accessed on/off switch

PC Head Tracker
- 3 degrees of freedom: pitch, roll and yaw
- 250 Hz sample rate

PC Interface Module
- Video: Single channel RCA input
- Audio: Stereo-input and pass-through output
- VGA interface-input and pass-through output
- No internal card or software drivers needed
- 60 or 70 Hz operations
- both field & line sequential 3-D formats

$749.95

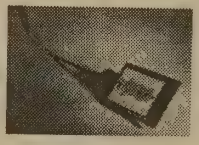
Tiger LABS INC.

PC Card

A Member of PCMCIA

PCMCIA 28.8k v.34/v.FC Data/Fax Cellular Ready Modem

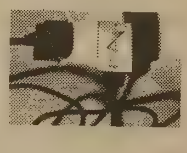
- V.34 28.8 Kbps data
- 14.4 Kbps Groups 1-3 fax
- Cellular data ready
- Hayes AT command set compatible
- Data & fax software included
- Easy installation and use
- Includes software for Prodigy, American On-Line, Compuserve, and QuickLink
- 5 year warranty



$224.95

PCMCIA SCSI-II Adapter

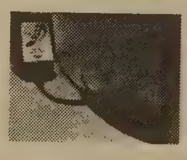
- PCMCIA release 2.01, Type I cards fit in any Type I, II, or III slot
- Connect up to 7 SCSI I or SCSI II devices through SCSI-II compliant interface
- Includes a high flexibility 3 foot 25-pin to 50-pin low density SCSI cable
- Card parameters are fully configurable for easy installation
- Performance and compatibility are enhanced through award winning **CorelSCSI** software for CD-ROM and hard disks
- 5 year warranty



$179.95

PCMCIA Multimedia 16-bit Audio Card

- Record, edit, and play back CD-ROM audio, .WAV files, MIDI, and other sound
- Add echo and other special effects to .WAV files
- Text-to-speech translation, which reads a text file using a synthesized human voice
- Hands-free operation of Windows applications with voice recognition software
- Driver routines to provide a MIDI interface to music sequences
- Sound Blaster compatibility for many games supported by the Sound Blaster Card
- 4 channel MIDI mixing
- MIDI keyboard recording

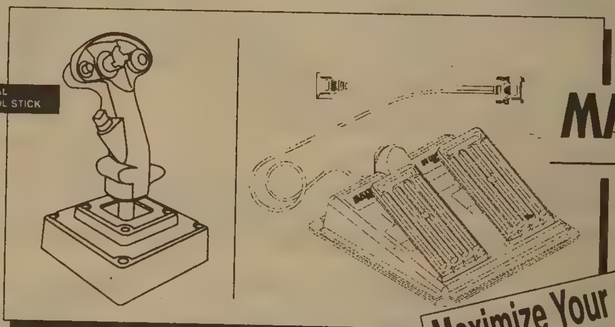


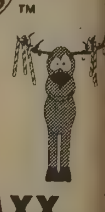
$204.95

Suncom TECHNOLOGIES

STRIKE FIGHTER SERIES™

Joystick & Rudder Control





Maximize Your Control
Add rudder to your simulation!

- The authentic replica of the actual flight stick found on the F-15E Strike Eagle, the premier fighter jet for the USAF.
- Offers enhanced realism for PC flight simulation
- Compatible with any joystick or yoke
- Requires IBM PC or compatible with gameport
- Fully assembled, Ready to Plug & Play

Both only....... $74.95

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VISA MasterCard DISCOVER American Express ATM **Expires: 12-17-95**

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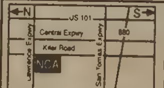

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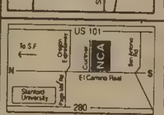

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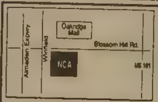

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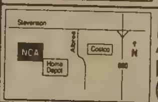

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⑮

HIGH QUALITY COMPUTER PRODUCTS

TAC SYSTEMS INCORPORATED

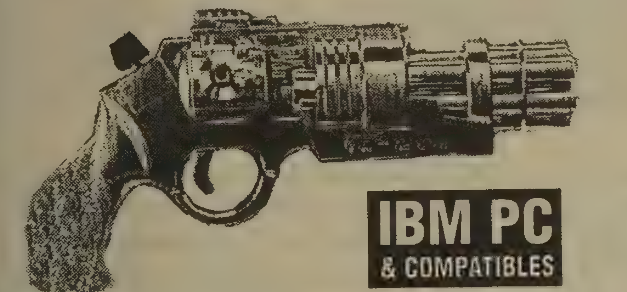
DEMON DESTROYER GUNN™

YOUR PRAYERS HAVE BEEN ANSWERED

I APPROACHED THE DOOR CAUTIOUSLY.

A NOISE FROM BEHIND WARNED ME OF THE APPROACHING ENEMY. I SPUN AROUND AND FIRED MY LAST TWO SHOTS. AMMO SPENT, I HAD NOWHERE ELSE TO TURN. THE DOOR OPENED AND UPON A PEDESTAL BEFORE ME LAY MY LAST HOPE OF SURVIVAL, THE M-308 DEMON DESTROYER GUNN™. LATE, BUT IT HAD FINALLY ARRIVED FROM EARTH. NOW THE ENEMY STOOD NO CHANCE FOR SURVIVAL. I SLAMMED IN THE CUP AND WAS READY TO COMPLETE THE MISSION.

MORE INSTINCTIVE AND REALISTIC GAME PLAY!
WORKS WITH DOOM™ AND ALL 3-D ACTION GAMES!
SINGLE HANDED PLAYABILITY!
QUICK ACTION TRIGGER!
ERGONOMIC GRIP!
FREE BONUS SOFTWARE INCLUDED!
HINTS AND CHEAT CODES FOR POPULAR 3-D ACTION GAMES INCLUDED!



IBM PC & COMPATIBLES

$59.95

Join The Timex and Microsoft Revolution

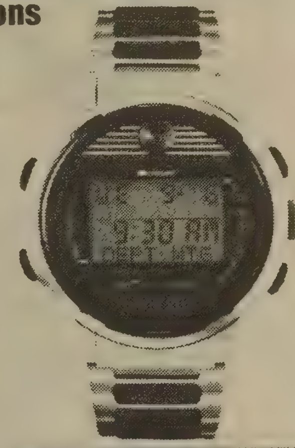
Wireless PC to Watch Communications

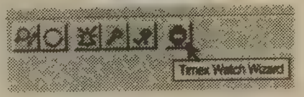
TIMEX DATA•LINK WATCH

A personal information manager on your wrist.
Download information from your PC to the Timex Data Link watch. Select information from the Microsoft and Timex Data Link software, then simply
point the watch at your PC monitor. The information, as flashing lines of light on your PC monitor, is read by the watch sensor. In seconds, up to 70 entries are loaded in the watch.

The Times Data Link watch features:
Appointments-Stores time, date, and message of appointments, and beeps to remind you before each one.
Phone Numbers-Shows name and phone numbers for quick and easy access.
Anniversaries-Reminds the watch owner of an event with a string tied-on-a-finger icon.
To-Do-Lists-Lists tasks in a memo log sorted by priority.
Time Settings-Sets watch time directly from a PC and allows users to keep track of a 2nd time zone.
Alarms-Presets up to five alarms a day, manually or by downloading from the PC.

TRADITIONAL WATCH FEATURES
•**INDIGLO** night-light with NIGHTMODE illuminates the entire watch display with a uniform bright light in low light conditions.
•Shows hours, minutes and seconds with 12/24 hour format option.
•Water resistant up to 100 meters.
•3 year battery life.





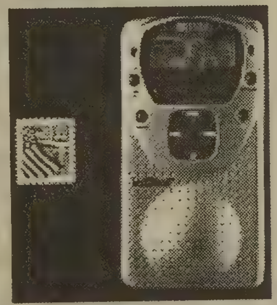
MICROSOFT WINDOWS COMPATIBLE

$99.95

Black leather or silver bands!

SYCOM TECHNOLOGIES

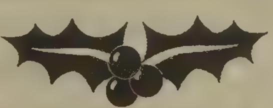
Total Recall™ - A Big-Memory Digital Recorder and Organizer That's Smaller Than Your Hand



Total Recall™ takes digital recording technology to new heights, overcoming the limitations of conventional tape recorders and surging past other digital recorders on the market today! Total recall not only enables you to easily capture your most important thoughts with a touch of a button, but also tag them for quick access wherever and whenever you wish. By conveniently tagging your VoiceNotes™ with an audible alarm, you can be sure that you remember those important ideas before it is too late.

In addition to serving as a quick message reminder device, Total Recall™ serves as a powerful dictation system. After completing a VoiceNote™ you can later edit it just as you would using a word processor. You can selectively erase portions and insert additional recordings at any location without recording over previous notes.

Total Recall™ not only takes dictation, but does filing as well. Total Recall™ is the only digital recorder that allows you to store each message in a specific "folder." By permitting you to categorize your VoiceNotes™, Total Recall™ makes it even easier to retrieve your personal VoiceNotes™.

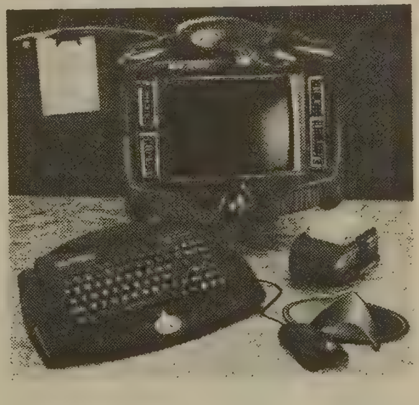


- LCD display with memory status, alarm indicator, and battery level gauge
- 11 minutes of recording time for 100's of VoiceNotesTM
- Voice activated recording (VOX)
- Voice alarms for all notes
- Wake-up alarm
- Earphone jack for listening privacy
- AC adapter jack
- Ergonomic design: 4 3/8" x 2 1/8"x 1/2"
- Weighs only 3.5 oz.

$139.95

BrainWorks

STAR TREK THE NEXT GENERATION™



TRANSFORMS ANY PC INTO A STAR TREK COMPUTER!

Multimedia Disk Holder

Searching the galaxy for data has never been more exiting than with this shuttle craft disk holder that stores 35 3.5" disks or 10 CD-ROMS.

$9.95

Monitor Mask and Free Mouse Pad

With this sculpted, 3-D monitor mask, your boring beige PC will never be the same! It will make you feel as if you're on the bridge of The Enterprise™! Fits any 14" or 15" monitor and comes with free mouse pad.

$17.95

Mouse and Free Mouse Pad

This sophisticated phaser is actually a two button serial mouse. PC & Windows™ compatible. The mouse pad is the STAR TREK: THE NEXT GENERATION™ insignia and it's free with purchase.

$19.95

The 24th Century Keyboard

With it's space age design, it plugs into any PC. Comes with a built in wrist rest to relieve stress and fatigue when inputting critical Starship data. Includes the exclusive BrainWorks Flashers! 7 different keyboard lightshows.

$54.95

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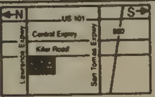

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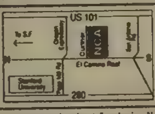

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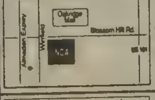

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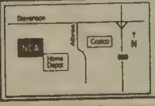

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HIGH QUALITY UPGRADES

Exercise Your Mind Not Your Wrist

Your Choice

$58.95

PS-2 Version
Serial Version
MAC Version

For Desktop and Notebook Computers

- The most intuitive computer control possible- easier to use than a mouse or trackball!
- 500dpi for greater accuracy
- User-adjustable features-
  - -Gesture control
  - -Touch sensitivity
  - -Edge motion sensing
- Stable footprint-no slipping or sliding
- Patented "Infinite Edge" edge motion feature- Keeps cursor in motion even when finger reaches any edge of the live area-No more picking up your finger (or an entire mouse) to put your cursor where you want it
- Low power consumption
- Just plug-and-play!

NEW!

Comes with:
- **Touche Touch Pad with 5' cable**
- **Complete user's guide**
- **Customizing software**

Touché
Touch P

ScreenToyz

Your Choice:

$44.95

ScreenToyz from Contango, INC., gives you a choice of three wacky hardware devices that plug into the PC keyboard port and interact with cartoon-like software. ***TNT Tad*** and his ***Detonator*** allow you to, among other things, blow up that tedious spreadsheet. ***Latrina*** and her slime-filled toilet enable you to, for example, flush away your boss's e-mail. And ***Stitch*** with his high-voltage ***Knife Switch*** lets you stomp your database down to size ***Trashmaster style.***

TNT Pad

In each of his crazy capers, TNT Tad will suprise you with explosive action. Watch him tempt fate as he juggles sticks of dynamite. Watch in awe as he learns his lesson that grenades are not toys! You'll have a total blast!

Latrina

With slimy shticks like The Plunger Man, Scrubbing Bubbles, and Dog Abuse, Latrina will tickle your funny bone. Watch her bounce around your screen trying to catch flies with her tongue. Marvel at her dexterity as she plunders her way through the Dance of the Sugarslime Fairy. You'll get totally grossed out!

Stitch

Stitch comes to life in shocking adventures. Watch him run scared as he tries to evade the angry villages. Reel in horror as he digs for hidden body parts. Be touched by his gentle wooing of the beautiful Faye. You'll go to pieces!

Verbatim High Quality Reliable Media

87410	DataLife IBM formatted double-sided/high density 3.5" disks / 10 pk.	$6.99
87706	Double-sided/high density teflon-coated IBM formatted 3.5" disks / 10 pk.	$7.99
87573	Double sided/high density Macintosh formatted 3.5" disks / 10 pk.	$7.99
90545	230MB 3.5" optical disk	$31.99
89616	8mm tape drive cleaning cartridge X112	$11.99
89615	4mm tape drive cleaning cartridge	$7.99
87698	8mm 112M computer grade data cartridge	$8.99
88195	4mm 90M computer grade data cartridge	$7.99
87992	120MB DC-2120 QIC-80 formatted minicartridge	$10.99
89944	DC-2120 QIC-80 / 2 pk.	$20.99
90745	MC3000XL 340MB cartridge	$19.99
87695	160MB high density data 1/4" data cartridge	$13.99
90854	CDR74 Recordable CD-ROM disc-74 Minute	$13.99

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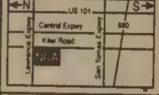

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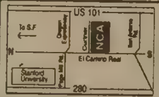

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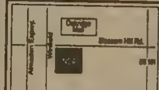

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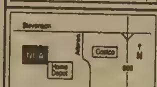

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BOARDS, RAM, ETC.

CPU's, MEMORY & SIMMS

intel CPUs

486DX-33MHz
486DX2-50MHz
486DX2-66MHz
486DX4-100MHz
Pentium 60MHz
Pentium 66MHz
Pentium 75MHz
Pentium 90MHz
Pentium 100MHz
Pentium 120MHz
Pentium 133MHz

intel inside pentium

AMD CPUs

AMD486DX2-66MHz
AMD486DX2-80MHz
AMD486DX4-100MHz

LOW PRICE GUARANTEE*

IBM COMPATIBLE MEMORY

256X9	80ns	3Chip	$Call
1MBX9	80ns	3Chip	$Call
1MBX9	80ns	9Chip	$Call
1MBX9	70ns	3Chip	$Call
1MBX9	70ns	9Chip	$Call
1MBX9	60ns	3Chip	$Call
1MBX9	60ns	9Chip	$Call
4MBX9	80ns	9Chip	$Call
4MBX9	70ns	3Chip	$Call
4MBX9	70ns	5Chip	$Call
4MBX9	70ns	9Chip	$Call
4MBX9	60ns	9Chip	$Call
16MBX9	70ns	9Chip	$Call
EDO Memory			$Call

72-PIN MEMORY SIMMS

2MB 604-70ns/60ns	$Call
4MB 1X36-70ns/60ns	$Call
8MB 2X36-70ns/60ns	$Call
16MB 4X36 70ns/60ns	$Call
32MB 8X36 70ns/60ns	$Call

PCMCIA

FlashCard

PCMCIA Mass Storage For Mobile Computers

NEW •Lower Prices•

Seagate

SunDisk The Solid Advantage

☐ HP 95LX
☐ GRiD Convertible 386/486

Kit Includes:
FlashCard, Communication Cable, Software Drivers

2.6MB FlashCard Kit	$259
5.2MB FlashCard Kit	$359
10.4MB FlashCard Kit	$469

☐ HP 100LX/OmniBook
☐ EO Personal Com. 440/880
☐ NCR 3170 Safari*

FlashCard Only, No Software Needed
* Kit Includes FlashCard & Software

2.6MB FlashCard	$219
5.2MB FlashCard	$299
10.4MB FlashCard	$459
20MB FlashCard	$799

Macintosh Memory

1MBX8	80ns	2Chip	$Call
1MBX8	80ns	8Chip	$Call
1MBX8	70ns	2Chip	$Call
1MBX8	70ns	8Chip	$Call
2MBX8	80ns	2Chip	$Call
4MBX8	80ns	8Chip	$Call
4MBX8	70ns	8Chip	$Call
4MBX8	60ns	8Chip	$Call
4MBX8	80ns	II-FX	$Call
16MBX8	70ns	8Chip	$Call

32-Bit Memory for Quadra 800, Centris, LCIII & Power PC's

2MB Module	$Call
4MB Module	$Call
8MB Module	$Call
16MB Module	$Call

MAC MEMORY INSTALLATION

Installation $15
(excluding Powerbooks)

POWERBOOK MEMORY

6MB Module (160/180)	$Call
8MB Module (160/180)	$Call
10MB Module (160/180)	$Call
6MB Modules (140/145/170)	$Call

LASER PRINTER MEMORY

HP Laser Jet 4 & 4M

0MB	$39
4MB	$Call
8MB	$Call

HP Laser Jet IIP, III, IIID, HP IIIsi

OTHER LASER PRINTERS
PANASONIC P4410/4430 Printers
Compaq Page MRQ Printers EPSON Action II Printers OKI 400 Printers & NEC Printers

CACHE MEMORY

32X8-20ns	$5.99
8X8-20ns	$Call
8X8-15ns	$Call
32X8-15ns	$Call
64X8-20ns	$Call
64X8-15ns	$Call

HEWLETT PACKARD
Laser Printers, DeskJets Pritners PRINTER ACCESSORIES:
TONER CARTRIDGES • TRAYS / FEEDERS
MEMORY MODULES

MOTHERBOARDS

MYLEX

Ultra Reliable, High Performance MotherBoards

CPU Sold seperately

MGI-486: 486VLB $119
2-VLB Slots, 256K Cache (up to 512K)
0MB up to 64MB RAM uses 30pin & 72pin SIMMS
Green PC, ZIF Socket, SIS Chipset, Award BIOS

MPXS-486: 486PCI NEW! $149
2 EIDE-I/O, 3 PCI slots, 5 ISA Slots, 256K Cache,
0MB up to 128MB RAM uses 72pin Simms,
Green PC, ZIF Socket, SIS Chipsèt, Award BIOS

MGP: Pentium™ 75/90/100Mhz PCI $215
3 PCI, 5 ISA slots, 256K Cache up to 1MB,
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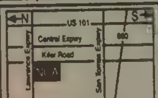

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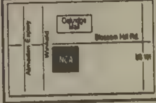

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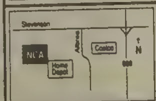

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M6

Gulch GOSSIP

by Jonathan E.

For the latest CD-ROM and software news & reviews, see our Holiday Gift Guide section starting on page 118

Gulch Gossip Goes Gift Giving

'Tis the season...and Gulch Gossip gets the jump on it this year for two reasons.

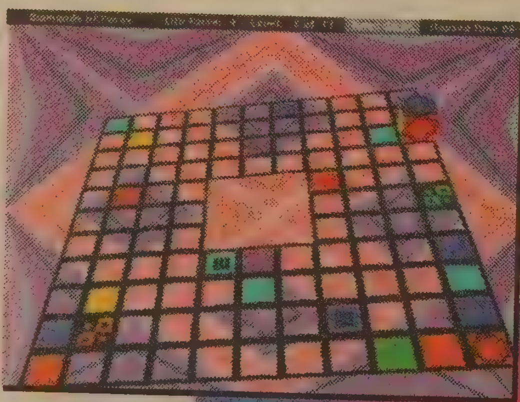
First, all the smart folks had their parties to launch their titles early, knowing that in December there are so many things going on that our brains are even more scrambled than usual. Second, in October, Gulch Gossip was afflicted by a nasty, physical-not-electronic virus that causes Bell's Palsy, partial facial paralysis and unseemly twitching. The treatment is steroids, which made Gulch Gossip even more unfocused and agitated than usual. When that combined with trying to whip the **MediaBand Construction Kit** into shape, Gulch Gossip just couldn't deal with last month's column nor with attending public events in October—so that's why you didn't get the dubious pleasure of reading or seeing *moi* back then.

Now thankful that Gulch Gossip is back to the normal level of overload and health, Gulch Gossip believes that we should all praise the Lord and grease the wheels of commerce by giving loads of multimedia-type gifts from our local developers—especially the ones who hosted Gulch Gossip.

The End Of Fun

WAAAY BACK IN AUGUST, AT **SLIM'S**, THERE WAS A PARTY FOR THE ENDORFUN GAME CD-ROM, now famous for its use of subliminal audio messages of positive reinforcement. Afterwards, as Gulch Gossip headed for home, I felt that there had to be more to life, something more significant than going to parties. Perhaps the subliminal messages had really worked!

Anyway, **one song partners, inc.** of the Napa Valley has now finished the CD-ROM, and it's available for both Mac and Windows. Gulch Gossip thinks it would make a suitable gift for those who enjoy rolling multicolored cubes around a grid while the Nigerian-based music of the O Band plays and those subliminal messages insinuate themselves into the mind.



There are a variety of games on the CD-ROM that you can play for longevity, points, or speed while absorbing the "life force." It's often compared to Tetris and is pleasing to the eyes and fun to play, although Gulch Gossip finds the way that you must roll the cube onto the grid square with the matching color on top of the cube, rather than facing the square, quite counterintuitive.

Gulch Gossip thinks Endorfun would make a suitable gift for those who enjoy rolling multi-colored cubes around a grid while the Nigerian-based music of the O Band plays and those subliminal messages insinuate themselves into the mind.

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PAST
IRIS
EXIT
spiritual thoughts
slide show

Music

It was a very hot day in early September, and Gulch Gossip intended to attend an **MDG** seminar on CD-Plus at the Transmission Theater. However, once there Gulch Gossip really felt like having a beer at the **20 Tank** next door first. There he met the folks behind **OM Records**, who, by golly, have just released their first two CD-Pluses, *The Groove Active Collection* and *Spiritual High*.

Both are well-compiled collections of music tracks from various sources. *Groove Active* covers the hip-hoppy, trip-hoppy, acidy-jazz sound, while *Spiritual High* takes you on a trip through what Gulch Gossip calls Music of the Archaic Revival, a mix of electronics, primal acoustics, and esoteric beats. Now, Gulch Gossip is generally skeptical of CD-Pluses, Enhanced CDs, or whatever you want to call them—but the data tracks of these two titles lessen the skepticism. Why? Because they contain interesting material—beyond inane "environments" and bandmembers' tour bus videos—that add some insight, "enhancing" the music by explaining some of the real impetus behind the sound.

OM has ambitious plans for the next year: a new release every month with original tracks rather than licensed from other sources. You can find the releases in real music stores. Gulch Gossip never made it to the MDG meeting even though OM Records didn't buy him any beer.

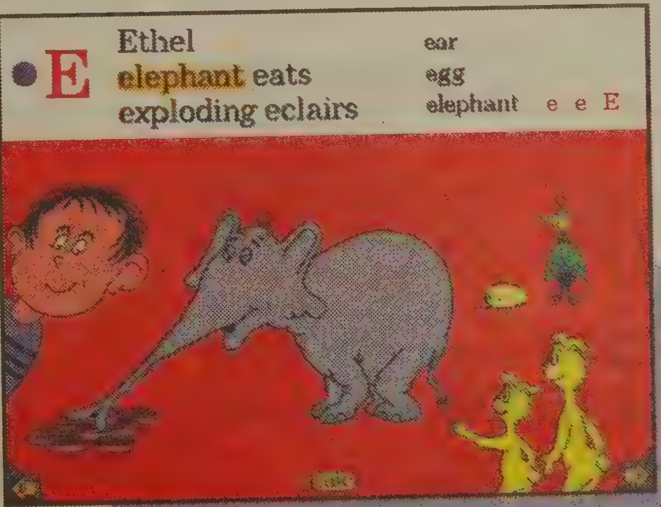
Gulch Gossip is also excited by some straight musical releases. **Haunted by Waters**, who played at the first **Art-Teco**, have their first release, *Like the Dust*, out on the **X Dot 25** label. With a variety of influences from around the globe and across time, Haunted by Waters play music that reverberates through different moods but is always satisfying.

The Beasts of Paradise have their first full-length release, *Gathered on the Edge*, out on **City of Tribes**. This is perfect music to listen to when you've been at the computer for too long. They have perhaps a slightly lighter and poppier feel with more emphasis on the vocals than

continued on page 292

Total Distortion

YES, TOTAL DISTORTION IS NOW FINISHED, SHRINK WRAPPED, AND in the stores. It might be in some dumb section like the Lifestyle section, but Gulch Gossip has seen it in the stores with his own two eyes. Gulch Gossip hasn't had time to play with his own personal copy yet, but haven't you all seen **Joe Sparks** doing his highly entertaining demo at some time in the past couple of years? So, just go out and get one for the distorted delinquent in your household!



Living Books Does Dr. Seuss

LIVING BOOKS HAD A SWELL PARTY TO show off its new office and recording studio. The studio is even better IRL than the press release made it sound. The maze of cubicles in the rest of the office makes Gulch Gossip wonder if future titles will be more maze-like than book-like.

In the meantime, get *Dr. Seuss's ABC* for your young ones. It's very cute, amusing, and easy to use in the Living Books tradition, with great music on Red Book audio tracks as well as in the CD-ROM section. However, Gulch Gossip would like to see the music given an interactive treatment. Living Books also has *The Berenstain Bears Get in a Fight*, which looks to be for slightly older children who've mastered their ABCs—and are now ready to "understand conflict," as the box puts it. They can also learn Spanish, if it's not their first language, because that's an option *para los osos*.

Included in the box for both titles are books to go along with the CD-ROMs (and, if you want to know what I really think about boxes, read our next issue's "soapboxes"). Gulch Gossip is also amused to note that the Trouble Shooting Guides for Windows and Windows 95 are sixteen times as long as the Trouble Shooting Guide for Macintosh.

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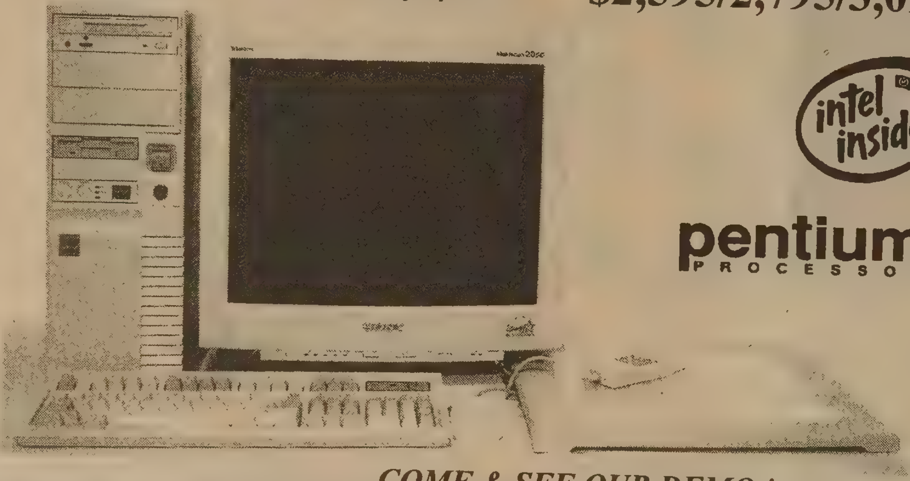

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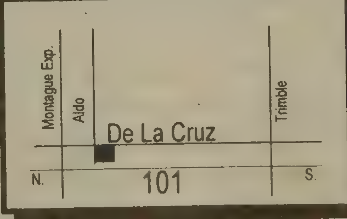

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Info, Toys, And Miscellaneous Cool Stuff

By Douglas J. Nakakihara

I've always felt that a magazine subscription was possibly the best gift anyone could give or receive. So here's a run down on publications of interest to Amiga users.

Amazing Computing is still hanging in there, but *Amiga World* bit the dust this year. However, its British sister publication, *Amiga Computing*, has begun publishing an exciting US edition to help fill the void. This extremely colorful magazine includes US advertisers and weighs in at near one hundred pages.

If you've ever seen any of the imported British Amiga magazines, you'll recognize the whimsical "cartoonish" look and sometimes-perplexing layout style. It may be a little hard for us Americans to read, but it is filled with interesting content, good product reviews, and lots of pictures and screen shots.

If you're into the Toaster, *Video Toaster User* magazine is still going strong. Its format was revamped this year, and a lot of the staff is new as well. It's now much more focused on the needs of its readers and, I think, a better publication. For LightWave 3D users, I highly recommend its sister publication, *LightWave Pro*, as well. Both of these publications feature regular and guest columns by experts in their fields.

> EVERYONE KNOWS YOU CAN'T FOOL MOTHER NATURE. IT'S NEARLY AS DIFFICULT TO FOOL HUMAN BEINGS WITH COMPUTER-GENERATED IMAGERY.

Speaking of the Toaster, there is a new monthly CD-ROM-based magazine called *Club Toaster*, a very cool and affordable publication. It features a slick push-button interactive interface and comes with oodles of things for both Toaster and LightWave users. So far they've included audio samples, Flyer/PAR video clips, Toaster effects, background images, image brushes, LightWave objects and scenes, and product reviews. The first issue—which may still be available—included Composite Studio 1.1, the Jurassic dinosaur object set, and a collection of wedding objects.

LightWave Explosions

With the release of LightWave for the PC and SGI, expect to see an explosion of materials related to this 3-D program.

Desktop Images offers a variety of tutorial tapes on LightWave, as well as the Video Toaster. One of its newest releases features Ron Thornton, the 3-D mastermind behind Foundation Imaging, the company that provides the fantastic special effects for *Babylon 5*. Ron's two tapes should be required viewing for any LightWave animator. He gives you lots of tricks and insights to help you build more realistic objects.

There's even a LightWave video magazine that delivers one to two hours of tutorials, reviews, etc. on VHS tape every month. What a wonderful way to learn how to use this program! Although I still prefer hardcopy tutorials, it's not uncommon to run into roadblocks set up by well-meaning editors and proofreaders. At least with videotape, you can usually see what they are talking about.

Many new products extend LightWave's functionality. One very interesting product is called Fiber Factory. This utility will actually coat a LightWave object with hair! I haven't actually played with it yet, but the objects in the ads look very interesting.

Impact! is another new utility that automatically computes physical properties for objects. This allows you to animate things with much more real-life qualities. Also, I recently saw a demo of MacroForm, which allows LightWave modelers to create much more organic-looking objects using rails and extrusion tools. One of the interesting things about this program is that it operates right on Modeler's interface. I'm hoping to review all of these products in the near future.

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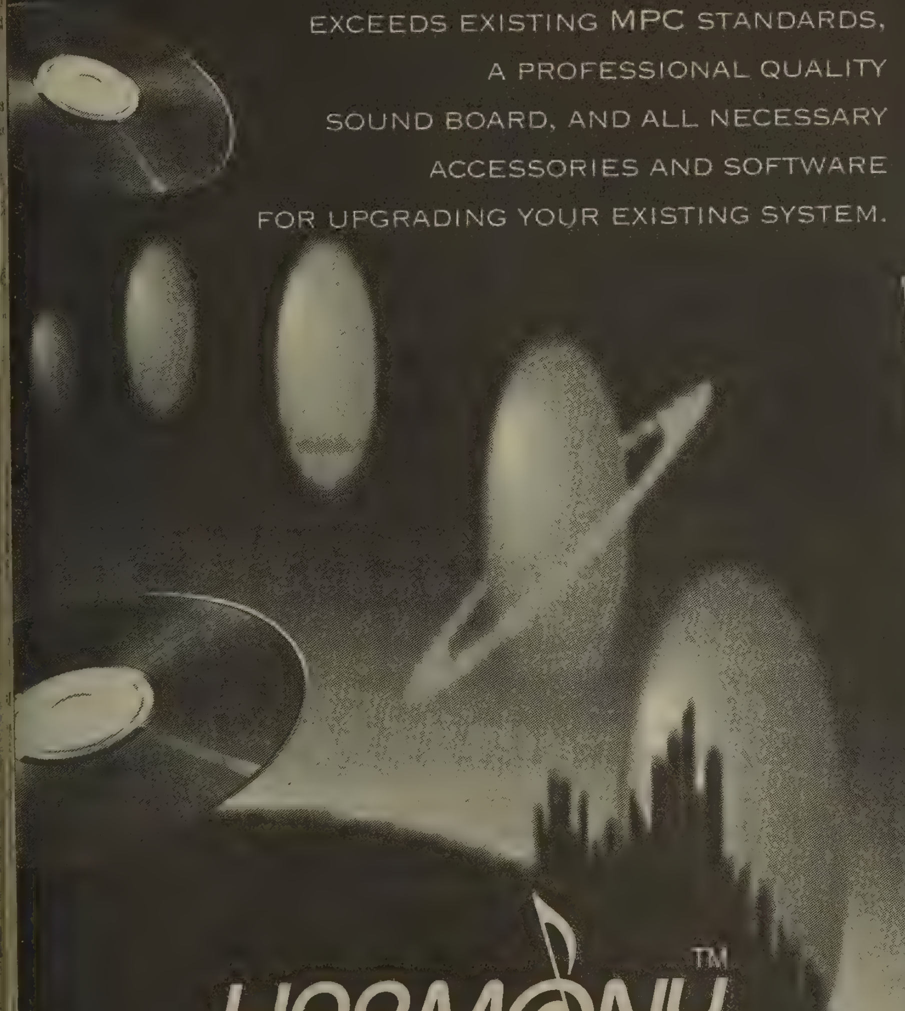

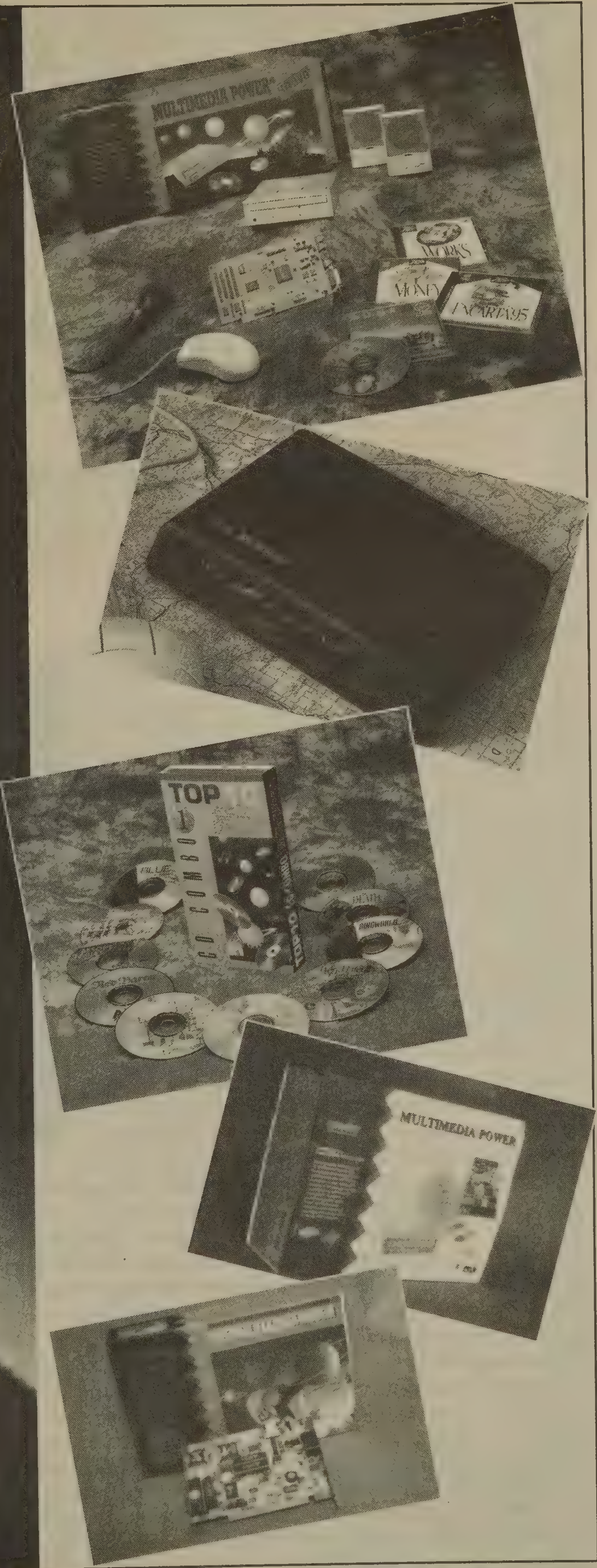

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Distributors & Dealers Welcome

New Games Get Psychic

Frankenstein, Detectives, And More

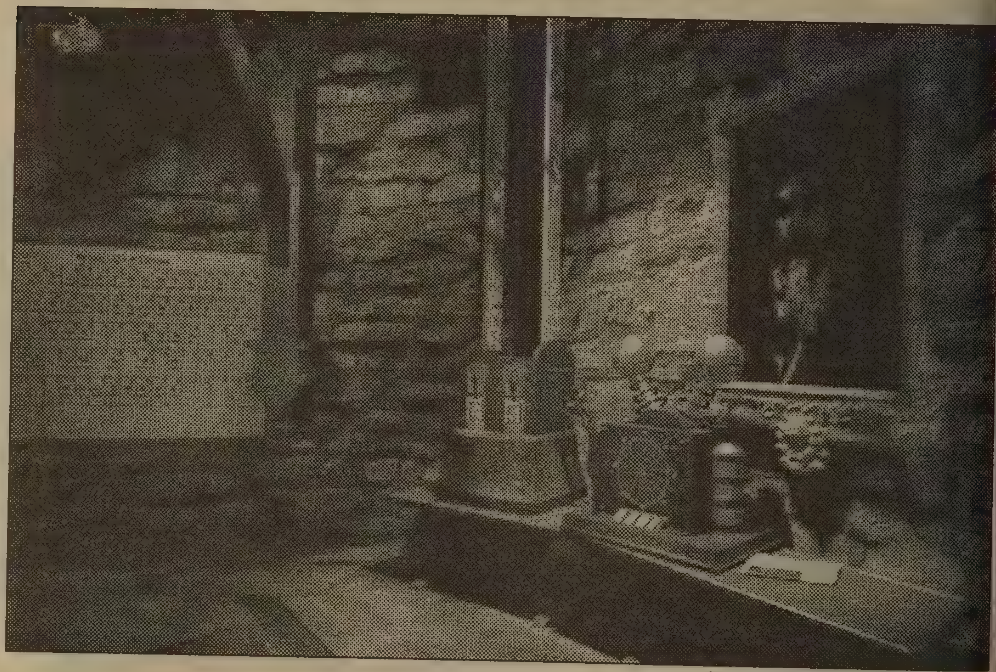
By Tony Reveaux

Game development is a restless art that operates in a continuous state of reinvention. Multimedia developers are driven by a frenzy of creative ambition even as the technology shifts and morphs under their feet. The methods of making multimedia games see more changes in one year than the fledgling motion picture industry saw in ten years. The ancestors of these CD-ROMs are the classic arcade games, but their fulfillment will be interactive movies, and their ultimate destiny will be immersive virtual reality.

When Reactor's pioneer graphic adventure *Spaceship Warlock* came out three years ago, it was one of the few on the then-new CD-ROM medium that enabled that humongous amount of rich data and interactivity to be economically possible. Many people bought a CD-ROM player just to be able to get on board *Warlock*'s virtual comic book action. Today, each title generation, even from the same publisher, is often radically more advanced than the previous one.

There's another multimedia game trend—disc multiplication. Electronic Arts' *Psychic Detective* is on three discs. Access Media's cybermystery *Under a Killing Moon* is on four discs. Sierra On-Line's *Phantasmagora* contains "the most film footage ever included in any game" and is backed by a fully orchestrated soundtrack featuring a 135-voice choir, all stacked on (count 'em) seven CDs. They say that the sequel, due in February, may be squeezed down to six discs. The upcoming Digital Video Discs (DVD) format, with up to 18 gigs of storage, will be arriving not a moment too soon for these big story-tellers.

Multimedia games are being accelerated along two main development paths: more realistic full-screen full-motion video, and the development of interactive dramatic narrative. *Frankenstein: Through the Eyes of the Monster*, produced by Amazing Media of San Anselmo, and *Psychic Detective*, from Colossal Pictures of San Francisco and Electronic Arts of San Mateo, are two new titles that reflect vigorous efforts in these directions. *Frankenstein* has just been released; *Detective* has been seen in beta previews.



Frankenstein: Through The Eyes Of The Monster

It took the Amazing team of twenty to twenty-five people more months than they had anticipated—years, in fact—to complete *Frankenstein: Through the Eyes of the Monster*. Some mumblings could be heard that it may have taken more time than creating life itself.

But now the Macintosh/Windows CD-ROM is on the shelves, published by Interplay/MacPlay. And it all fits on one CD-ROM.

Joining the growing trend of big-screen talent being digitized down for the desktop, Dr. Frankenstein is played by none other than Tim Curry, immortalized as Dr. Frank N. Furter in the cult favorite movie *Rocky Horror Picture Show*. Curry's blue-screen antics are composited over the richly rendered realism of *Frankenstein: Through the Eyes of the Monster*.

The game castle environment has seven layers of multiple achievement levels of floors, chambers, towers, and secret passages. You, the player, are

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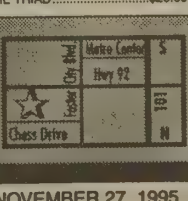

Multimedia Authoring

Choosing An Authoring Package To Meet Your Needs

By Pamela Mason

In the late '70s, Nicholas Negroponte, the director of MIT's Media Laboratory, predicted that the broadcast, print, publishing, and computer industries would merge to form a new direction in communications technology. This vision has come to pass in the form of multimedia. Software has changed significantly over time in two ways to accommodate this merge. The first is in the ability to integrate many different types of media together, and the second is in the ability to create an interactive environment for the user.

These are also two of the key concepts in multimedia authoring packages—the ease of the *integration* of graphics, text, sound, audio, and video, and the ways in which *interactivity* is achieved. A multimedia authoring tool is essentially a program that lets a developer create the interface and the "environment" where the user navigates through the various parts of a multimedia title. All of these parts (graphics, text, video, animation, and audio) are called "content."

> *No single package will always meet all your needs, and in fact, many developers use several authoring packages.*

Authoring tools vary widely in their capabilities. At the high end, features can include true multitasking authoring environments, the ability to compile code within the program, and extensibility (the ability to communicate with other programs). Lower-end packages are primarily media integration tools that run "slide-show" type presentations.

Whether the multimedia application you are developing is for CBT (computer-based training), corporate presentations, CD-ROM titles, courseware, edutainment, multimedia kiosks, sales and marketing demonstrations, or electronic training manuals, choosing an authoring package requires investigation and comparison.

First determine the type of end-user and what platform(s) to develop and deliver on. Then, look at the software currently used in-house (text, graphic, animation, video). Are the authoring package's files compatible? If not, can they be converted? Does the package have the ability to process digitized sound, MIDI or CD-audio files? What video file formats are supported? Other things to keep in mind are issues related to file and data storage and retrieval and database access. Third-party CD-ROMs such as IB&C's Instant Buttons and Controls (for Macromedia Director) can provide quick libraries of buttons and widgets.

You need to also consider a package's ability to handle color palettes. There are two main issues. One is the ability to dither down a quality image from a 24-bit to an 8-bit image. This is necessary since 8-bit (256-color) is currently the most universally compatible graphics mode. (Note: this may eventually change when 24-bit graphics cards become the new standard.) Secondly, it is important to understand how easily you can create, edit, and transfer custom palettes. If the package does not handle the manipulation of color palettes, you will need to find third-party utilities or image-processing packages that allow you to do this. Keep in mind the need for compatible file formats so that the processed files can then be imported back into the authoring package.

Different Tools For Different Tasks

Asymetrix's Multimedia ToolBook 3.0 CBT Edition is the computer-based training version of their popular Multimedia Toolbook for Windows. It is excellent for managing multiple courses, glossaries, and quizzes and for creating an event-driven learning environment. The scripting language, OpenScript, is also event-driven. The authoring metaphor is an intuitive book page format. This package is efficient, powerful, and easy to use. It allows you to create user interfaces with a variety of controls including buttons, 3-D objects, drag and drop, and Object Linking and Embedding (OLE).

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- ◆ Full-tower Model, 10 Drive bays
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- ◆ MS Windows 95
- ◆ *Compton's Encyclopedia 1995*
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- ◆ *350 Games*

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- ◆ SVGA Monitor 14" .28 NI
- ◆ 1MB PCI SVGA Video Card
  S3 Windows Graphics Accelerator
- ◆ Quad Speed CD-ROM
- ◆ 16 bit Sound Card
- ◆ Surround Sound 170 W Speakers
- ◆ 14.4k FAX Modem
- ◆ Mini-tower Model
- ◆ 101 Enhanced Keyboard & mouse
- ◆ *MS Windows 95*
- ◆ *Midisoft Recording Session*
- ◆ *Compton's Encyclopedia 1995*
- ◆ *MS Works 3.0*
- ◆ *350 Games*

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- ◆ 1MB SVGA Video Card (exp. 2MB)
  S3 Windows Graphics Accelerator
- ◆ Quad Speed CD-ROM
- ◆ 16 bit Sound Card
- ◆ Surround Sound 170 W Speakers
- ◆ Mini-tower Model
- ◆ 101 Enhanced Keyboard & mouse
- ◆ *MS Windows 95*
- ◆ *Midisoft Recording Session*
- ◆ *Compton's Encyclopedia 1995*
- ◆ *MS Works 3.0*
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- ◆ Surround Sound 170 W Speakers
- ◆ 14.4K FAX modem
- ◆ Mini-tower Model
- ◆ 101 Enhanced Keyboard & mouse
- ◆ *MS Windows 95*
- ◆ *Midisoft Recording Session*
- ◆ *Compton's Encyclopedia 1995*
- ◆ *MS Works 3.0*
- ◆ *350 Games*

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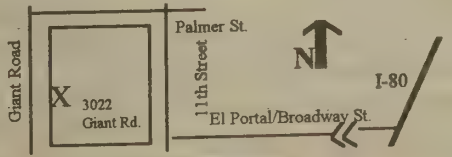

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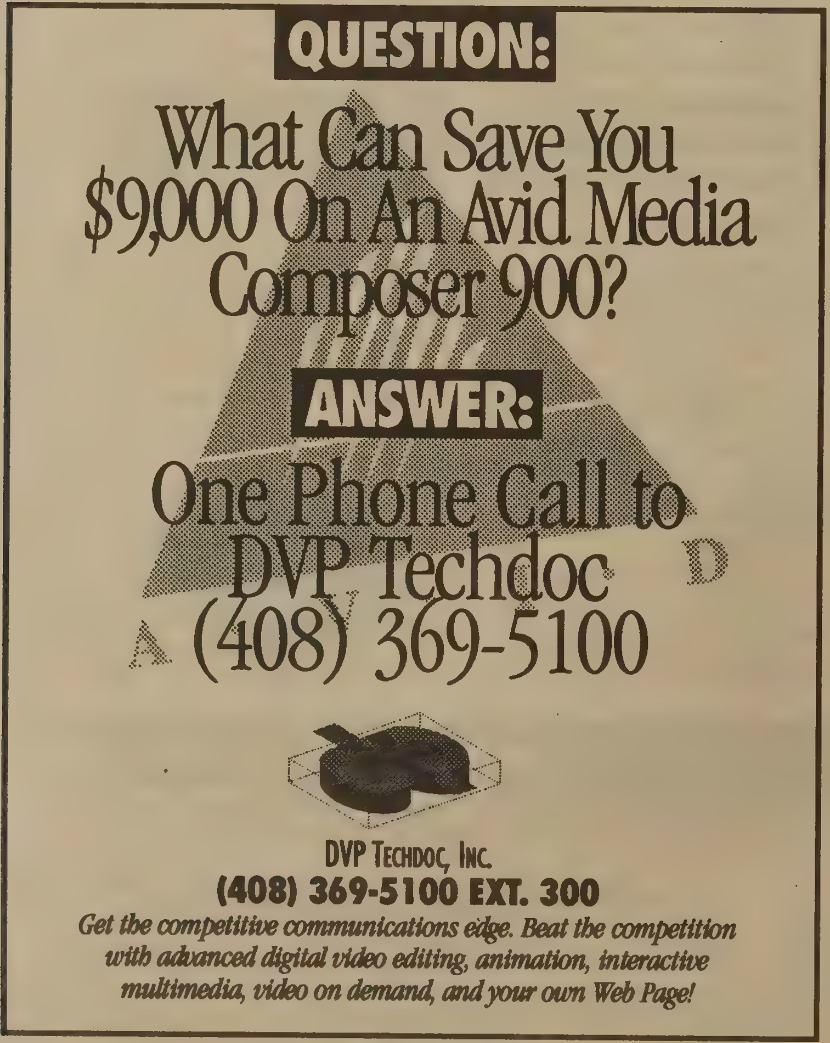
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Multimedia Authoring *continued...*

Quest 5.0 for Windows is a sophisticated authoring package which has matured nicely. It offers a unique dual authoring environment. The design, or meta level, is for laying out the "big picture" and the frame, or micro level, is for filling in content details. Most authoring packages' flow chart icons are plain or simply labeled, but Quest's are small postage stamps of the actual screen, complete with all of its elements.

HERE ARE SOME KEY

points/questions to consider when purchasing an authoring package:

- What platform will you develop on?
- Who is the end-user?
- What platform will it be delivered on?
- Do you need cross-platform delivery?
- Does the price include a runtime version with an unlimited distribution license?
- Can it access external programs?
- What level of media integration is needed?
- How extensible is the package? For example, does it have the ability to edit DLLs for Windows or XCMDs for the Macintosh?
- Does it provide a scripting language or C++ libraries?
- How will it meet your content experts' and staffing needs? Are they heavily programming oriented? Will it suit their needs or require too long a learning curve?
- What is the authoring metaphor—icon, page, timeline, frame, etc.? Which best suits your content experts' skills and production schedule timelines?

Quest 5.0 is an ideal choice for educational and interactive training applications because it offers interactive branching and answer judging features, and it is highly extensible. It has a FastTracks library of reusable multimedia elements such as buttons and menus. It has an embedded authoring language called Quest C which lets nonprogrammers choose objects to create "C" code. Quest Services provides programmers access to Microsoft Windows API calls and DLLs. Also, C code can be compiled internally without having to go to an outside editor.

Macromedia Director 4.0 offers binary file compatibility so that applications created in Windows or Macintosh can be seamlessly delivered and played back on either platform. Director is easy enough for entry-level developers and powerful enough for the most sophisticated multimedia producer. They recently introduced the Director Multimedia Studio for Windows and Macintosh, which provides developers with a complete cross-platform solution by bundling Director 4.0, SoundEdit 16 1.0 (Mac) or Sound Forge 3.0 (Windows), Macromodel 1.5 (with Pixar's Renderman), and Adobe Premiere 4.0.

HSC's InterActive is an ideal place for the nonprogrammer to start learning about multimedia authoring. It is excellent as a quick prototyping tool for larger projects and can create fairly sophisticated presentations in its own right. It also includes a complete copy/delivery system for placing applications on CD-ROM, disk, or other media.

Additional Considerations

Before purchasing an authoring package carefully examine production needs, training time to learn the package(s), and the end-user's needs. No single package will always meet all your needs, and in fact,

continued on page 326

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3C509B-TP0 Sing/5-Pk/20-Pk/60-Pk	109/458/1,630/4,412
3C509B COMBO/5-Pk	129/568
3C509B Combo 20-Pk/60-Pk	2,061/5,661
3C529B TP MCA/5-Pack	244/1,026/5,661
INTEL Pro TP/5-Pk/20-Pk/60-Pk	101/430/1,518/5,424
EE Pro TP&BNC/5-Pk/20-Pk/80-Pk	110/481/1,821/6,410
EE Pro TP w/FLASH/5/20/80-Pk	116/462/1,670/5,918
EE Pro TP&BNC w/FLASH/5/20/80-Pk	126/532/1,987/7,039
SMC EtherEZ ISA Plug N Play Combo	129
Elite Ultra 16TP/6-Pk/24Pk	95/478/1,697
Elite Ultra Combo/6-Pk/24-Pk	108/591/2,122
Elite 10T/A 10 BaseT MCA	198

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COGENT EM960TP PCI 10BaseT	148
MICRODYNE NE5500 PCI Combo/5-Pk	163/740
RACAL INTERLAN PCI TP/Combo	138/152
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3C597 10/100BaseT EISA/5-Pk	265/1,262
3C770A EISA FDDILINK-STP/UTP	1,066/819
3C771A EISA FDDILINK-FIBER	1,436
ASANTE AsanteFAST 10/100 PC/MAC PCI	217
FARALLON PN990 NUBUS/PN994 PCI	356/263
INTEL EExpress Pro 10/100 PCI/5/20Pk	156/708/2,510
EExpress Pro 10/100 EISA	260
NATIONAL SEMI 10/100 ISA	192
Infomover 10/100 ISA 5/25/50	861/4,013/7,213
NF3000-F-1 FDDI ISA/EISA Fiber	1,336/1,230
NETWORTH SwiftNIC 10/100BaseT PCI/EISA	251/398
ROCKWELL 8-port FDDI UTP Concentrator	4,595
SMC EtherPower 10/100BT PCI Single/5-Pk	220/1,049

Fast Ethernet Hubs

3COM 3C250-TX/I 12 100 BASE TX stackable hub	1,995
INTEL Express Stackable Hub 12 100TX	1,769
NETWORTH Micro100 100BaseT 8-port Hub	1,380
Micro 10/100 24 port 10/100 auto sensing hub	3,808

Token Ring

3COM TokenLink III 16/4/10-Pk	260/2,389
TokenLink III EISA 16/4	576
IBM Token Ring 16/4 Adapter II	426
INTEL Token Express Pro 16/4 ISA	277
PROTEON P1392+ Token Ring 16/4/10-Pk	430/4,049
SMC Token Ring Elite 16/4 Single/12-pack	264/2,900

PCMCIA/Parallel Port Adapters

3COM 3C589B PCMCIA 10BT/COMBO	164/216
3COM 3C689 PCMCIA TR/5-Pk	410/1,935
IBM Credit Card Coax/TP Adapter	242/261
Credit Card Token Ring 16/4 Adapter	480
NATIONAL SEMI PCMCIA Ethernet Adapter	189
Additional Media Coupler for Thin/10BT	79
SMC ElitePort EtherNote Combo	235
XIRCOM Pocket Adapter III 10BaseT	284
Pocket ENET III COMBO(BNC & 10BaseT)	325
Pocket PEM-10BT Fax/Modem 10BT/BNC	500
PCMCIA IIPS 10BaseT/Combo/TR	163/213/450
PCMCIA Enet 28.8 Modem & Fax 10BT/Combo	505/556

Concentrators & MAUs

3COM Linkbuilder TP/12 NO AUI/BNC	350
ASANTE 8-Port w/AUI&BNC/12-Ports	165/335
24-Port w/AUI	511
ALLIED TELESYN 4/8/12 Port (AUI)	209/229/456
MICRODYNE 5318+ 16 ports w/BNC&AUI	547
BAY NETWORKS 800 8-port w/AUI	294
2800A 16 ports w/AUI	572
HP Advanced Stack 8-port	279
Advanced Stack 16-port	542
SMC 3608TP 8-Port/3512TP 12-port	304/568
Elite 4000C TR Mau 8-port/16-port	722/1,106
3COM Linkbuilder TR 3C510180	1,875

SNMP Manageable Concentrators

3COM Linbuilder FMSII TP 12-port	576
Linkbuilder FMS II TP 24-port	1,014
Linkbuilder FMS II TP 48-port	2,200
Linkbuilder FMS II Management Module	480
HEWLETT PACKARD Advanced Stack 12-port	617
Advanced Stack 24-port/48-port	1,062/1,963
Advanced Stack SNMP module	462
Advanced Stack 12-port w/SNMP	960
Adv. Stack 24-pt w/SNMP/48-pt w/SNMP	1,440/2,261
NETWORTH 8-Port Snappable	650
16-Port Snappable Hub	930
16-Port SnapView Bundle (1 Hub/HubView Sw)	1,296
48-Port Snappable Bundle	2,603
24-Port TriSegment Stackable Hub	1,288
24-Port TriSegment Mgmt. Hub	2,041
PowerPipes Ethernet/FDDI Switching Hub	7,487
BAY NETWORKS 810M 8 ports w/ AUI managed	572
2800A 16-port w/AUI	598
2803 16-port w/AUI/2804 w/FIBER	649/875
2813-04/2813-05 16-port w/AUI	1,576/1,010
2814-04/2814-05 16-port w/FIBER	1,791/1,246

Network Management

3COM Transcend Workgroup Mg for Windows	496
Transcend Enterprise Mgr for Windows	2,181
FRYE NetWare Mgmt 1st/Add Svr	337/277
HEWLETT PACKARD Interconn. Mgr for Win	407
Interconnect for OpenView	2,010
INTEL LanDesk Manager	1,047
LanDesk Mgmt Suite 5users/10/100	438/584/3,469
LanDesk SNMP Gateway/Response	578/717
LanDesk Traffic Analyst	718
LanDesk OpenView for Windows	1,789
NOVELL Lanalyzer for Windows v2.1	1,100
NetWare Management System	1,692
NetWare Management Agent (Single)/20PK	338/5,382
NetWare LANalyzer Agent v1.0 (Single)	1,008
NetWare LANalyzer Agent (Multiple Segment)	1,692
NETWORTH HubView or HubView for NMS	733

Long Distance Repeaters

TUT Systems XL1501 (1BNC/1RJ11) 1500'	991
XL1502 (2BNC/2RJ11)	1,416
XL1503 (1BNC/1RJ11/1AUI)	1,057
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XL600+ 600' Repeater (1 Pair)	499
Dual Port Repeater BNC/BNC/Quad Port	199/249

Tape Backup Solutions

ARCADA Backup Exec Single Server 25 Users	334
Backup Exec Single Server Unlimited Users	474
Backup Exec NetWare Enterprise NLM	916
CHEYENNE ARCserve v5.01 NLM 5/10	261/511
ARCserve v5.01 25/50/100 users	882/1,082/1,219
ARCserve v5.01 250/500/1000	1,502/2,551/5,842
JETserve Backup	5,026
Changer Option for v5.0/Stacker Option	456/470
PALINDROME Backup Director NLM 1 SVR (25 Users)	256
Backup Director NLM 1 SVR/Multi-Server	585/1,011
Storage Manager Single Server/Multi-Server	1,435/2,522
COLORADO Power Tape 1.1GB w/o Ctrl	696
Power Tape Int. 2GB SCSI Tape Drive w/Ctrl	1,065
Power Tape 50-4 GB SCSI Tape Drive w/Ctrl	1,295
EXABYTE 8205XL 8mm 3.5-7GB Drive Int/Ext	1,419/1,692
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HP C1536 DDS 4mm 4-8GB DAT Int/Ext	840/990
C1533 DDS2 4mm 8-16GB DAT Int/Ext	1,117/1,267
ST. BERNARD Open File Manager	495

Bridges/Routers/CSU

Rockwell NetHopper NH-5 Remote Access Router	CALL
NetHopper NH-P NetWare Async Rtr w/v.34	1,542
NetHopper NH-SYNC+ Sync Router	CALL
MOTOROLA DDS/MR64 V.35 or RS232	463
FT100S V.35 or RS232	1,000
FT100 V.35 Frame Relay	2,000

Switching Hubs

3COM LinkSwitch 1000 12 RJ45, 1 Fast Ethernet	CALL
LinkSwitch 1000 24 RJ45, 1 Fast Ethernet	3,536
Kalpana EPS500 EtherSwitch 5-pt w/SNMP /Full Dplx	2,352
EPS2015-041 EtherSwitch 15-pt w/SNMP	6,271
NLM Load Balancing Software	441
SMC TigerSwitch XE 24-pt	6,926

Remote Access

CITRIX WinView Software 10-User	2,354
NOVELL NetWare Connect 2/8/32 pts	380/1,528/4,491
NetWare Connect 2-port w/Modem and Serial I/O	1,064
NetWare Connect 8-port w/Modem and Serial I/O	4,055
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module w/2 v.34 28.8 Modems J2623A	2,132
2A/Plus Module and SNMP Bundle J2633A	2,241
4A Module w/4-async ports J2624A	1,706
4A Module and SNMP Bundle J2634A	1,777
SHIVA Net Modem/E 28.8	1,332
Lanrover/2E Plus w/ 2 V34 modems	2,422
Lanrover/2E Plus w/ 1 V34 modem & 1 Async	CALL
Lanrover/2E Plus w/ 2 Asnyc	1,752
Lanrover/E 3.5 8prt	3,847
Lanrover/E Plus Async 8prt w/o modems	5,179
Lanrover/E Plus 8-port v.34	7,898
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR	1,590/1,986
XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

ISDN Connectivity

3COM Impact ISDN 3C871 (MPPP)	488
Impact ISDN 3C872 (MPPP) w/ modem	562
ASCEND Pipeline 50 ISDN Single w/NT1	961
Pipeline 50 ISDN Multi w/NT1	1,342
Pipeline 400B/400T/400-4BRI	3,393/4,680/7,605
COMBINET PC-1030 w/o NT1	388
PC-1050(Comp) w/o NT1	465
CB-2050B w/o NT1 4 Users	776
CB-2060D w/o NT1 Unlimited Users	1,164
900 ISDN PRI Enterprise Access Server	3,539
CISCO Systems LAN2LAN Personal Office ISDN-BRI	506
LAN2LAN Remote Office ISDN-BRI	1,412
LAN2LAN Enterprise ISDN-BRI/4 BRI	1,925/3,995
DIGI Datafire 16 Bit ISDN (PPP)	409
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
IBM WaveRunner ISDN ISA/MCA	562/562
7845 Extended NT1 for voice/data w/ battery	357
HAYES ISDN Adapter	733
MOTOROLA UTA220 ISDN w/NT1	616
HMTA200 ISDN/v.32/Fax w/NT1	711
BitSurfr PRO ISDN Term Adapter w/NT1/2 ANALOG	399
BitSurfr PC ISDN Internal TA	368
NT1D Network Terminator	186
US ROBOTICS Courier-I Modem w/V.34 w/Analog Int	630
Courier I-Modem w/ISDN/v.34 w/Analog Port Ext	743
Courier-I Modem w/ISDN/V.34 w/o Analog Port Int	588
Courier-I Modem w/ISDN/v.34 w/o Analog Port Ext	702

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT (1 PAR)	313
LANPress THIN/10BT (1PAR/1SER)	362
LANPress THICK/10BT (2 PAR/2SER)	512
HEWLETT PACKARD JetDirect 10BT MIO	330
JetDirect Combo MIO BNC/10BT	400
JetDirect Ethernet EX/EX Plus3	362/484
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/Token Ring	463/618
MILAN Fastport 3110CX 10BT, Multi-Protocol, 1P/2S	396
Fastport 3210X 10BTMulti-Protocol, 2P/2S	485
Fastport 3500X TR Multi-Protocol	521

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500	3,801/4,982
FaxServe 3 NLM 1000	6,229
DELRINA Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
Winfax Pro for Networks 10/25/50	626/1,489/2,774
Starter Kit (1 Server, 2 nodes)	284
GLOBAL VILLAGE FaxWorks Pro LAN 2/10/30	145/494/571
PURE DATA Satisfaxtion Modem 200/400	244/315
Satisfaxtion Modem 2000/4000 2port/4port	1,157/1,822
U.S. ROBOTICS Ethernet/TR Fax Server	1,970/2,227

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET PLUS DOS/NLM (100 Starter Kit)	1,482
CDNET PLUS EXPAND (50/100)	525/896
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	734/1,062
Discport w/NEC Ext. 6X Speed CD-Rom	1,140
Discport w/NEC 6X 4CDROM in 7-Unit Tower	3,173
Discport w/NEC 6X 7CDROM in 7-Unit Tower	4,838
DiscServ NLM/Discport Pro	558/1,307

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Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix	99/149
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BELDEN PVC RG58 or RG62 Cable (1000' min)	175
PLENUM RG58 or RG62 Cable (1000' min)	350
MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users	309/1,508
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Branch Link Router/Enterprise Router	765/1,902
NetWare NFS/Gateway Bundle	2,861
NetWare NFS Service for NW4.1	2,239
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140

E-Mail

cc:MAIL Desktop-Any Platform	72
Lan Systems License 10 users/50 Users	632/2,883
Group Pack 10-pack DOS/WIN	638
Mobile for DOS or MAC	150
Router/Fax	95/1,459
Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	135
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic Management Serv./Advan	144/578
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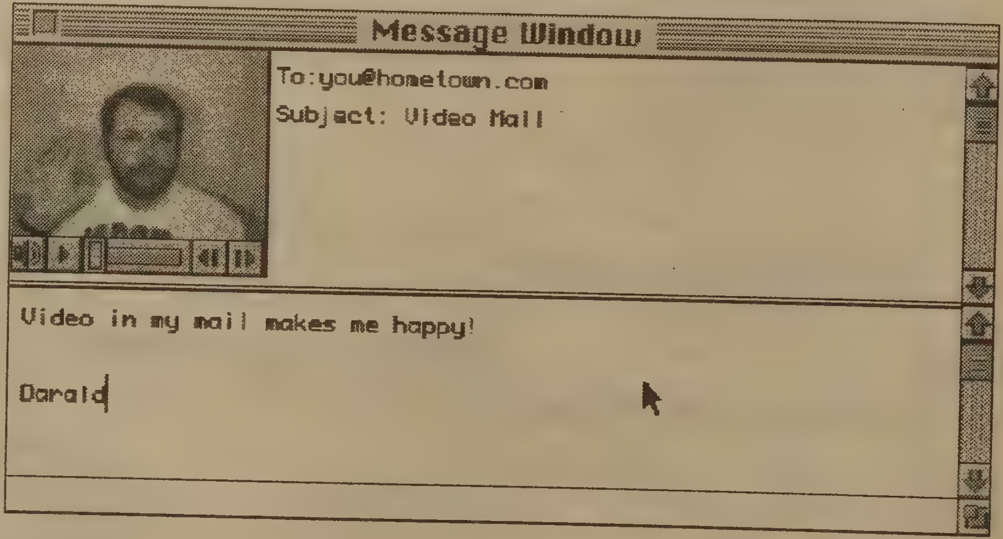
Multimedia In Your Email

Electronic Mail Comes Of Age

By Kevin M. Savetz



To:you@hometown.com

Subject: Video Mail

Video in my mail makes me happy!

Darald

Everywhere you look, folks are talking about the Internet and multimedia. World Wide Web browsers like Netscape make the Internet easy enough for a child to navigate. GopherVR will let you explore gopherspace using a slick, first-person "you are there" perspective. RealAudio lets you tune into audio on demand, even over a 14.4Kbps modem. The Internet and multimedia are slowly becoming intertwined.

Even tools as pedestrian as electronic mail benefit from the addition of multimedia. Today, most email sent and received is composed of boring ASCII text—letters, numbers, and a few symbols. The email that most of us send and receive lacks interesting fonts, colors, or the formatting options available in the simplest word processors. However, electronic mail is beginning to see a multimedia shift of its own.

MIME

Today, MIME (the Multipurpose Internet Mail Extensions specification) lets Internet users send email containing graphics and text with simple layout. MIME is a freely available specification that offers a way to interchange text in languages with different character sets, and multimedia email among various computer systems. MIME messages can include, in addition to plain old ASCII text, other character sets, images and sounds, PostScript files, pointers to FTPable files, and more.

MIME is increasing in popularity, but is far from ubiquitous. Not all email clients can handle MIME, although an increasing number of them do, like Eudora (for the Mac and Windows) and TCP/Connect II (for the Macintosh).

VideoMail

In another example of how multimedia is enhancing electronic mail, there's VideoMail—a shareware program for the Macintosh that makes it easy to email a QuickTime movie of yourself hamming it up to a friend.

Using VideoMail, you can digitize yourself (using audio and video, or just audio, depending on the hardware attached to your Mac), enter an email address, and watch VideoMail encode the multimedia message and fire it off to an associate in just a few seconds. The recipient receives email with an encoded attachment—a QuickTime movie—of your face and voice.

VideoMail works great for short messages, but you're likely to annoy your friends if you send them a ten-minute video of yourself dancing around with the cat on your head. As with other multimedia tools, sending audio and video messages with VideoMail takes a good chunk of bandwidth—about 7Kbps for audio only, and 30Kbps for audio and video. The program's author recommends keeping audiovisual messages to fifteen seconds or less, and audio-only messages to under forty-five seconds. That fifteen-second VideoMail message with audio and video can take about four minutes to download at 14.4Kbps. Many users would agree that while that could be much faster, this is approaching an acceptable download time for a message of that length.

VideoMail is not an end-all email program. It was designed to be a simple, send-only multimedia mailer, and is a fine complement to a full-featured email program like Eudora. Perhaps soon, "full-featured" mail programs will include the ability to capture and send audio and video, without the help of a separate program like VideoMail.

VideoMail is only available for the Mac, but the price is right: a $5 shareware fee is all the author requests. Besides five bucks and a Mac, you'll also need a SLIP or PPP Internet connection. Windows users, don't

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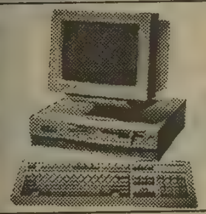

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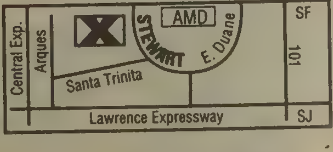

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Multimedia In Your Email *continued...*

When you're ready to send and receive video (with VideoMail or with real videoconferencing) you'll still need a video camera to beam your mug into cyberspace. Luckily, cheap hardware is already available: a company named Connectix has a gadget called the QuickCam, a $99 black-and-white snowball-sized job that works with CU-SeeMe.

If you're a Windows user, look no further than Logitech's VideoMan. It's even cooler than the QuickCam, although a bit more pricey at $399. The VideoMan is a sound and full-color video capture card for Windows machines. Besides working with CU-SeeMe, the VideoMan can do CD-quality audio, 30 frames-per-second video, and includes its own digital camera.

> *VideoMail works great for short messages, but you're likely to annoy your friends if you send them a ten-minute video of yourself dancing around with the cat on your head.*

despair: it's probable that someone will hack together a similar tool for Windows users too.

Multimedia Mail For The Masses?

Multimedia electronic mail will likely become a staple of Internet communications in coming months—certainly sooner than real-time applications like CU-SeeMe will. "Live" multimedia applications like CU-SeeMe and Internet Phone need to be able to send and receive information in real time—should your network connection slow down below a certain limit, packets of information will arrive late, or get lost. If you're participating in a videoconference and your network connection gets bogged down, a constant stream of packets (arriving in more or less the same order which they were created) is

continued on page 350

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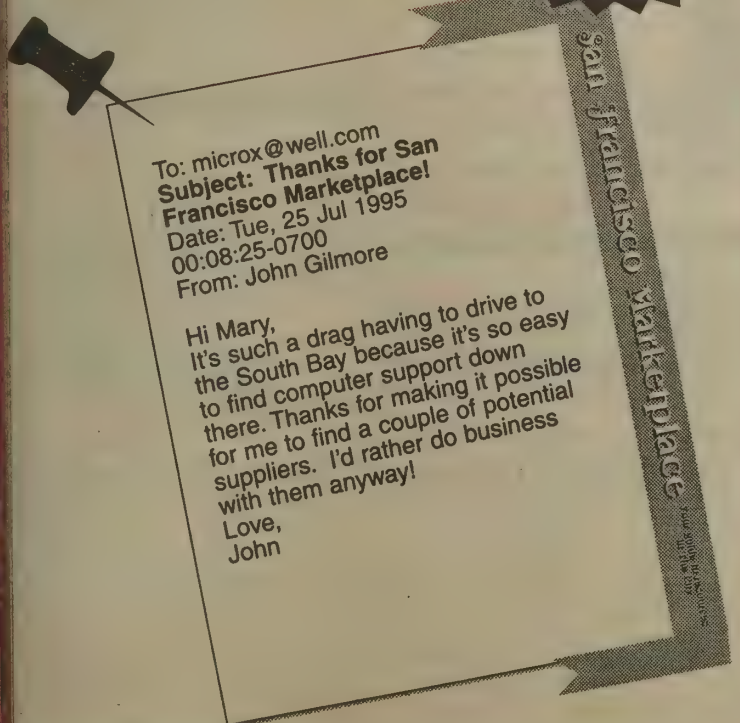
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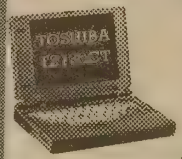

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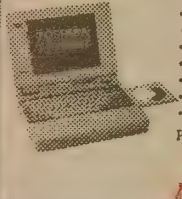

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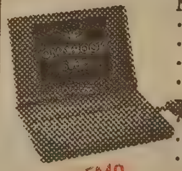

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F1096A	100MHz Intel DX4™	8MB/810HD	$2999.99
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F1089A	75MHz Intel DX4™	8MB/520HD	$3299.99
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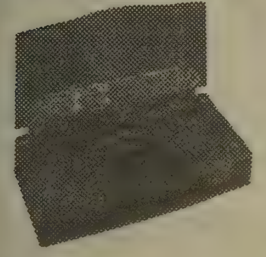

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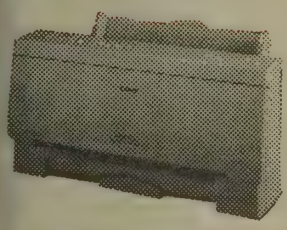

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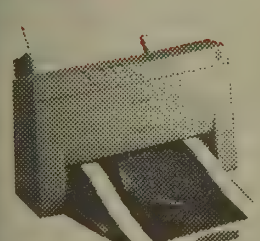

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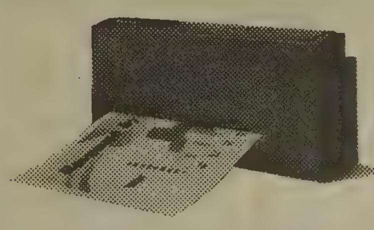

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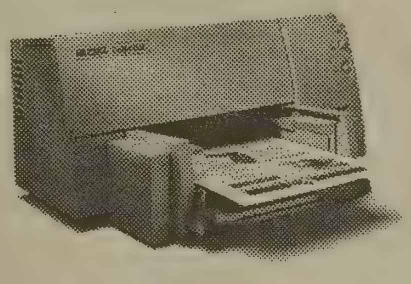

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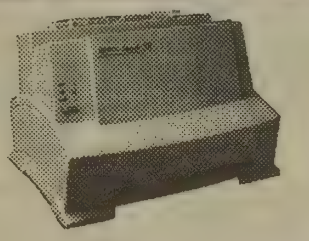

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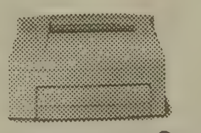

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- 540MB Hard Drive - 12ms
- 14" Non-Interlaced SVGA Monitor
- Trident® Super VGA Video Card - PCI
- 101 Enhanced Key Keyboard
- Microsoft® Compatible Mouse
- Rockwell® 28.8 Fax / Data Modem
- **2 Months Internet Access FREE**
- **Microsoft® Windows 95**

$ 1199.98

AMD® DX4-100Mhz *$ 1,249.98*

KCI Pentium™ Power Station

- Deluxe MiniTower Case / Power Supply
- Intel® Pentium™ 100Mhz CPU Chip
- Intel® Triton Chipset Motherboard
- AMI® BIOS, 4 ISA, 3 PCI Slots
- 256K Pipeline Burst Cache Memory
- 16MB EDO RAM Memory Chips - 70ns
- Enhanced IDE HD/FD Controller
- 2 Hi Speed Serial, 1 Parallel Port
- SONY 3.5" Floppy Disk Drive
- 1080MB Hard Drive - 12ms
- **17" Non-Interlaced SVGA Monitor**
- Diamond® Stealth 64 Video PCI - 1 MB
- **Microsoft®** Natural Keyboard
- Microsoft® Hi-Resolution Ergonomic Mouse
- Rockwell® Chipset 28.8K internal Modem
- Panasonic® Quad Speed EIDE CD-ROM
- Creative Labs® Sound Blaster 16
- 160W Power Amplified Speakers
- **15 CD Great CD-Titles included**
- **Microsoft® Windows 95 CD**

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Pentium™75Mhz System	**$ 2,598.00**
Pentium™120Mhz System	**$ 2,849.98**
Pentium™133Mhz System	**$ 2,998.00**

KCI Pentium™ Workstation

- MiniTower Case / Power Supply
- Intel® Pentium™ 75Mhz CPU Chip
- Intel® Triton Chipset Motherboard
- AWARD® BIOS
- 256K Cache Upgradable to 512K
- Energy Saving Green PC Functions
- 3 PCI Local bus Slots
- 4 16 Bit ISA Slots
- 8MB RAM Memory Chips - 70ns
- Enhanced IDE HD/FD Controller
- 2 Hi Speed Serial, 1 Parallel Port
- SONY® 3.5" Floppy Disk Drive
- 540MB Hard Drive - 12ms
- 14" Non-Interlaced SVGA Monitor
- Accelerated VLB Video - 1 MB
- 101 Enhanced Key Keyboard
- Microsoft ®Compatible Mouse
- Rockwell® 14.4 Fax / Data Modem
- Microsoft® Windows 95 CD

Quad Speed Multimedia Package $ 249.98

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Pentium™ 133Mhz System	**$ 1,489.98**

Pentium Internet - Multimedia BOX

- Deluxe MiniTower Case with 230Watt Power Supply
- Intel® Pentium™ 75Mhz CPU Chip
- Intel® Triton Chipset Motherboard
- AWARD® BIOS
- 256K Cache Upgradable to 512K
- 8MB RAM Memory Chips - 70ns
- Enhanced IDE Hard Drive /Floppy Drive Controller
- 2 Hi Speed Serial, 1 Parallel Port
- SONY® 3.5" Floppy Disk Drive
- 850MB Hard Drive - 12ms
- 14" Non-Interlaced SVGA Monitor 1024X768 (0.28 Dot)
- Windows® Accelerated PCI Super Video Card - 1 MB
- 101 Enhanced Key Keyboard
- Microsoft® Compatible Mouse
- internal 28.8 Fax / Data Modem (Rockwell® Chipset)
- Double Speed Internal CD-ROM (Panasonic®)
- Creative Labs® Sound Blaster 16 Bit Sound Card
- Pair of 80W Power Amplified Speakers
- **15 CD Great CD-Titles included**
- **Microsoft® Windows 95 CD**

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Pentium™ 100Mhz System	**$ 1,849.98**
Pentium™ 120Mhz System	**$ 1,949.98**
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Complete Multimedia & Internet Ready Solution

Chembook 9400 & 9800

BUILT-IN AUDIO

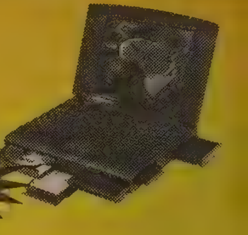
Specifications:
- Genuine Intel CPU Processor
- 128K Cache on 9400; 256K Cache on 9800
- 32 Bit VESA Local Bus Video with 10/3" Display
- 1MB Video RAM with 640x480 on Panal, 1024x768 on CRT
- 16 Bit Sound Blaster Compatible Audio System
- **Built-In 4MB RAM on 9400; 8MB Ram on 9800**
- 1.44MB High Density Floppy Drive
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- PCMCIA Slots (2 Type II or 1 Type III)
- Built-in 25mm Front-Centered Trackball
- Dual NiMH Battery with Hot Swap & 2 Hr Quick Charge
- Ports for Hi-Speed Ser, EPP, Ext CRT, Keyboard/Mouse & VLB Docking Station
- AC/DC Adapter, Carrying Case
- Weight: 6.6lbs; 11.4x8.6"x1.9"

NEW LOW PRICES	DUAL SCAN	ACTIVE MATRIX
9400 - 486DX2-66	$1785	$2225
9400 - 486DX4-100	$1815	$2261
9800 - Pentium 75MHz	$2160	$2585
9800 - Pentium 90MHz	$2250	$2675
9800 - Pentium 100MHz	$2315	$2740

Chembook 5400

- Genuine Intel Pentium CPU Processor (all models)
- **256K L1 & L2 RAM, 8MB DIMM RAM Exp. to 16/24/32MB**
- **32-Bit PCI Local Bus Controller with 2MB VRAM Video**
- 11.3" Dual Scan or 10.3" Active Color with 800x600 on Panel, 1280x1024 on CRT
- 1.44 MB Floppy Drive; 540MB Removable Hard Drive (810/1.3GB optional)
- PCMCIA Slots (2 Type II or 1 Type III)
- **Built-In Glide Point (PS/2); Built-In Joystick**
- 16-Bit Sound Blaster Compatible Sound System, with Built-In Speaker, Mic, Line-In/Out
- **Internal 2X CD-ROM Drive**
- **Infrared File Transfer Capability**
- Ports for High School Speed Serial, EPP, External CRT, Docking Station and MIDI
- Weight 7.7 lbs. (with Batttery); 10.8" x 8.94" x 2.13"
- NiMH Battery (2.5 hours) Quick Charge 2 Hour Rechargeable

Holiday Specials



GREAT VALUE	Dual Scan	Active Matrix
Pentium-75MHz	$2665	$3005
Pentium-90MHz	$2755	$3095
Pentium-100MHz	$2820	$3160
Pentium-120MHz	$2920	$3260
Pentium-133MHz	$3120	$3460

Chembook 5550

11.3" SVGA DUAL SCAN

Specifications:
- Genuine Intel CPU Processor (all models)
- **8MB RAM, Expandable to 8/16/32MB**
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- **Internal 2X CD ROM Drive (Removable)**
- 32 Bit VESA Local Bus
- 1.44MB Floppy Drive (Removable)
- PCMCIA Slots (1 Type II or 1 Type III)
- Complete16 Bit Audio System, with Built-in Speaker & Microphone
- 16C550 Hi-Speed Serial Port, MIDI/Game Ports, EDP Port
- 11.3" 800x600 Dual Scan SVGA Panel Display
- 10.2" 640x480 Active Color SVGA Panel Display
- Supports 1024x768 on Ext Monitor
- Built-In Trackpoint •NiMH Battery
- Optional PCV Video w/MPEG Standard
- 11.7"x9.9"x2.2" •Weight: 6.7lbs

SPECIAL PRICES	DUAL SCAN	ACTIVE MATRIX
486DX4-100	$2775	$3005
Pentium 90MHz	$2865	$3095
Pentium 100MHz	$2930	$3160
Pentium 120MHz	**$3030**	**$3260**
Pentium 133MHz	**$3230**	**$3460**

Patriot 6000

Pentium-Powered, Huge 11.3" Dual SCAN & CD-READY, MULTIMEDIA FREEDOM!

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- 256KB Cache Memory on Board
- **8MB RAM (16MB, 24MB, 32MB Optional)**
- 32 Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" (11.3" Option), Active 10.4 TFT
- **Removable 540MB IDE HDD (810MB, 1.3GB Optional)**
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slots
- 86-Key Keyboard, Inverted "T" Curser
- Built-in Touch-Sensitive Trackpad
- Built-in Speakers and Microphone
- Built-in 16-Bit Audio Compatible SB 16 & Win Sound System
- 2 Serial Ports (16550 UART), Parallel Port (EPP/ECP)
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- 110V-240V AC Adapter
- Removable Ni-Battery
- DOS 6.22
  Durable Carrying Case
- **CD ROM Drive 5.25" 2X Enhanced IDE Interface**

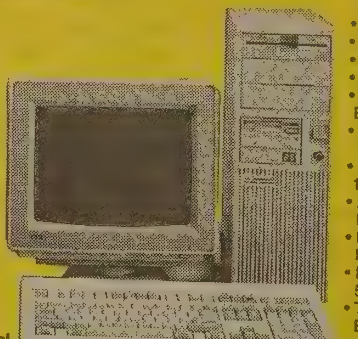
Holiday Specials

NEW MODEL	10.4" Dual	10.4" Active
486DX4-100	$2340	$2835
Cyrix Pentium 100MHz	$2410	$2905

Ultimate Pentium SCSI LAN Server

- Intel Endeavor Triton Chipset w/256K Pipeline Burst Cache
- Intel Pentium ™ Processor
- 16MB 72-pin RAM up to 128MB Simm
- Quantum FB108oS Fireball 1.08 Fast SCSI Hard Drive
- Adaptec 2940W Fast & Wide SCSi Controller w/Kit
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 PCI 1MB DRAM Display
- GVC 1448B 14" NI .28dp Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe 6-Bay Full Tower w/300W Power Supply
- **Toshiba 3601B 4X SCSI Internal CD-ROM**
- **Creative Labs Sound Blaster 16 Vibra Sound Card**
- **3Com 3C590 PCI Combo Network Card**
- Smartlink 28.8 Internal V.34 AT&T Chipset

Pentium
75/90/100/120/133 . .$2655/2735/2810/2980/3140



Professional Pentium Station

- Intel Zappa Triton Chipset w/256K Write Back Cache
- Intel Pentium™ Processor
- 8MB 72-pin RAM up to 128MB Simm
- Western Digital 312OOA 1.2GB 10ms
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 PCI 2MB VRAM 64 Bit Graphics
- Acerview 76i 17" NI .28dp 1280x1024 Digital Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe Super Mini Tower 5-Bay/250W Power Supply
- Toshiba 5302 4X Internal Enhanced IDE CD-ROM
- Creative Labs Sound Blaster 16 Vibra Sound Card
- 3Com 3C590B Etherlink III Combo
- Smartlink 14.4 Internal V.32 Fax/Modem w/Voice

Pentium
75/90/100/120/133 . .$2345/2425/2500/2670/2830

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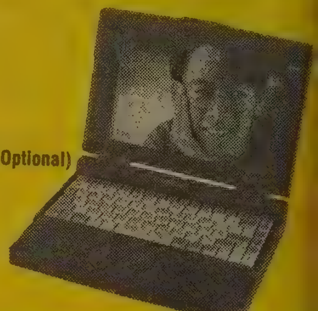
Touch-Sensitive Trackpad, 32-Bit Local Bus 1MB VRAM & 10.4" Dual Scans in Stock!
PC WORLD - IN THE TOP TEN FOR SIX MONTHS RUNNING!

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- **4MB RAM (8MB, 16MB, 20MB or 32MB Optional)**
- 32 Bit Local Bus Windows Accelerator
- 1MB RAM Supports 1024x768 at 256 Colors
- 10.4" Dual Scan 640x480, 0.3mm, 256 Colors
- 10.4" Active 640x480, 0.3mm, 64,000 Colors
- External CRT 1024x768NI, 256 Colors
- **Ultra Fast 2.5" 540MB Upgradable HD (810MB/1GB Optional)**
- Super Slim 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1x Type III PCMCIA Slots
- One Modular, 86-Key Reverse T Keyboard
- Touch-Sensitive Trackpad
- Built-in 16-Bit Audio, Sound Blaster Compatible
- Built-in Speaker and Microphone
- 1x 9 Pin Serial Port 16550 UART
- 1x 25 Pin Parallel Port (EPP/ECP)
- 1x Ext. SVGA, 1x Ext. Keyboard Ports
- 1x 160 Pin Docking Station port
- 1x Line-in, 1x Line-out & 1x Microphone Jack
- Intelligent Power Management
- Rechargeable Ni-Battery
- Windows 3.1, DOS 6.22; Audio Recorder, Reminder • Durable Carrying Case



BEST VALUE	10.4" Dual Scan	10.4" Active
486DX2-66	$1735	$2175
486DX4-100	$1765	$2205
Cyrix P100	$1815	$2255

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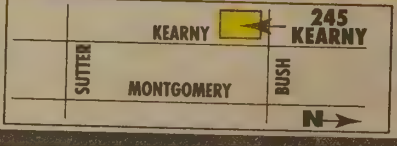

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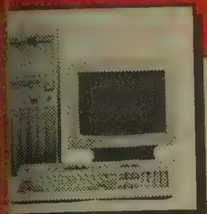
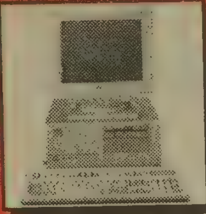


Compudata Pentium® 133MHz

Built To Last!

- Intel Plato Motherboard
- 256K Cache
- 16MB RAM
- 1.44MB Floppy Drive
- 1.0GB Hard Drive
- IDE PCI w/I/O
- SVGA PCI w/2MB Diamond Stealth 64
- 101 Enhanced Keyboard
- Viewsonic 15" SVGA Monitor 15ES
- Microsoft Windows 95 & Mouse
- 14.4 Fax Modem
- 2 Year Labor/1 Year Parts Warranty

$2499

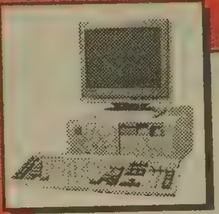


Compudata Pentium® 75MHz

Best Pentium Value

- Intel Plato Motherboard
- 256K Cache
- 8MB RAM
- 1.44MB Floppy Drive
- 810MB Hard Drive
- IDE PCI w/I/O
- SVGA PCI w/1MB Trident
- 14" SVGA Monitor
- 101 Enhanced Keyboard
- Mouse
- 2 Year Labor/1 Year Parts Warranty

$1219



Compudata 486DX4-100MHz

Built To Last!

- Genoa Motherboard
- 256K Cache
- 4MB RAM
- 1.44MB Floppy Drive
- 630MB Hard Drive
- 14" SVGA Monitor
- 1MB SVGA Card
- 101 Enhanced Keyboard
- Mouse
- 2 Year Labor/1 Year Parts Warranty

$939

Toshiba T-2110CS

- Intel DX4-75MHz
- 4MB RAM
- 330MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-In Power Supply

$1999

IN STOCK

Toshiba T-2130CT

- Intel DX4-75MHz
- 8MB RAM
- 520MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Active Matrix Color
- Built-In Power Supply
- Accupoint Mouse

$3089

IN STOCK

Toshiba T-2130CS

- Intel DX4-75MHz
- 8MB RAM
- 520MB Hard Drive
- 1MB VRAM
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- Built-In Power Supply
- Accupoint Mouse

$2470

IN STOCK

Toshiba Protege T-610CT

- Intel Pentium® 90MHz
- 8MB RAM
- 720MB Hard Drive
- 2 PCMCIA Slots
- 9.5" Active Color Screen
- 16 Bit Sound Compatible
- External Floppy Drive
- 5 Hour Battery Life
- Accupoint Mouse

$4659

IN STOCK

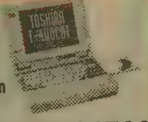
Toshiba T-400CS

- Intel Pentium® 75MHz
- 8MB RAM
- 810MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- External Floppy Drive
- 5 Hour Battery Life
- Accupoint Mouse

$3495

IN STOCK

Toshiba T-400CDT



- Intel Pentium 75MHz
- 8MB RAM
- 810MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Color Screen
- External Floppy Drive
- 5 Hour Battery Life
- Accupoint Mouse

$4389

IN STOCK

IBM ThinkPad 701CS

- Intel DX4-75MHz
- 8MB RAM
- 540MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Dual Scan Color
- 14.4 Fax Modem
- 16 Bit Sound Card
- 3 Year Warranty

$3699

IN STOCK

IBM ThinkPad 701C

- Intel DX4-75MHz
- 8MB RAM
- 360MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Color Screen
- Built-in 14.4 Fax Modem
- 16 Bit Sound Card
- 3 Year Warranty

$3588

IN STOCK

IBM ThinkPad 701C

- Intel DX4-75MHz
- 8MB RAM
- 540MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Color Screen
- Built-in 14.4 Fax Modem
- 16 Bit Sound Card
- 3 Year Warranty

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IBM ThinkPad 755CD

- Intel DX4-100MHz
- 8MB RAM
- 810MB Hard Drive
- 2 PCMCIA Slots
- 10.4" Active Color Screen
- Built-in 14.4 Fax Modem
- 16 Bit Sound Card
- Internal 2X CD ROM
- 3 Year Warranty

$4988

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TI Extensa 550CD

- Intel Pentium® 75MHz
- 8MB RAM Standard
- Removable 1.44 Floppy Drive
- 520MB Hard Drive
- 10.4" DSTN
- Serial Infrared Port
- Built-in Touch Pad Pointing Device
- Windows '95 Pre-Installed
- 2x CD ROM

$2999

IN STOCK

TI Extensa 550CDT

- Intel Pentium® 75MHz
- 8MB RAM Standard
- Removable 1.44 Floppy Drive
- 520MB Hard Drive
- 10.4" TFT Color
- Serial Infrared Port
- Built-in Touch Pad Pointing Device
- Windows '95 Pre-Installed
- 2x CD ROM

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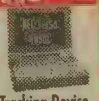

- Intel Pentium® 90MHz Processor
- 8MB RAM Standard
- 810MB Hard Drive
- Removable Hard Drive
- 10.1" TFT Color
- 1.44 Floppy /CD-ROM
- Built-in Stereo Sound
- Built-in Tracking Device
- Long-life Lithium Ion Battery

$4699

IN STOCK

NEC Versa 4000

- Intel Pentium® 75MHz Processor
- 8MB RAM Standard
- 540MB Hard Drive
- Removable Hard Drive
- 10.4" STN Color
- 1.44 Floppy Drive
- Built-in Stereo Sound
- Built-in Tracking Device
- Long-life Lithium Ion Battery

$3388

IN STOCK

NEC Versa 4000

- Intel Pentium® 75MHz Processor
- 8MB RAM Standard
- 540MB Hard Drive
- Removable Hard Drive
- 10.4" STN Color
- 1.44 Floppy Drive
- Built-in Stereo Sound
- Built-in Tracking Device
- Long-life Lithium Ion Battery w/CD ROM

$3688

IN STOCK

MONITOR SPECIALS

Viewsonic

Viewsonic 14ES 14" SVGA 1024x768 .28 NI	$269
Viewsonic 15ES 15" SVGA 1024x768 .28 NI	$369
Viewsonic 15GA 15" SVGA 1280x1024 .27 NI	$508
Viewsonic 17GA 17" SVGA 1280x1024 .27 NI	$849
Viewsonic 17PS 17" SVGA 1600x1280 .25 NI	$877
Viewsonic 20G 20" SVGA 1600x1280 .28 NI	$1229
Viewsonic 21PS 21" SVGA 1600x1280 .25 NI	$1777

Optiquest

1000S 14" 1024x768 .28 NI	$248
2000 DS 15" 1280x1024 .28 NI	$395
4000 TC 17" 1280x1024 .25 Trinitron NI	$788

NEC

NEC XV17 17" 1280x1024 76Hz	$775
NEC XE17 17" 1024x768 76Hz	$1035
NEC XE17 17" 1280x1024 76Hz	$1069
NEC XP21 21" 1280x1024 76Hz	$1945
NEC XP21 21" 1600x1280 76Hz	$2299

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Mini Tower w/230 Watt Power Supply
VLB Motherboard
w/256KB Regular Cache
4 MB Main Memory
1.44 MB (3.5") Floppy Drive
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1MB Windows Accelerator Video Card
14" SVGA Non-Interlaced Monitor
101 Enhanced Keyboard
+ MS Compatible Mouse
16 Bit Stereo Sound Card
Double Speed MPC Photo CD ROM Dr (250ms Access , 300 KB/Sec Transfer)
Shielded Stereo Speakers
& Free CD Title!!

AMD 486DX2-66 MHz	$849
AMD 486DX2-80 MHz	$859
AMD 486DX4-100 MHz	$909
AMD 486DX4-120 MHz	$929
Cyrix 486DX2-66 MHz	$849
Cyrix 486DX2-80 MHz	$859
IBM 486DX2-80 MHz	$879
Intel 486DX2-66 MHz	$929
Intel 486DX4-100 MHz	$969

VESA LOCAL BUS SYSTEM

Mini Tower
w/230 Watt Power Supply
3 Vesa Slots Motherboard
w/256KB Regular Cache
4 MB Main Memory
2 FD / 2 HD IDE Controller
1.44 MB (3.5") Floppy Drive
540 MB Hard Drive
32 Bit VL-Bus Video Card
w/ 1 MB
14" SVGA ,N.I. Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66 MHz	$779
AMD 486DX2-80 MHz	$789
AMD 486DX4-100MHz	$819
AMD 486DX4-120 MHz	$849
Cyrix 486DX2-66 MHz	$779
Cyrix 486DX2-80 MHz	$789
IBM 486DX2-80 MHz	$809
Intel 486DX2-66 MHz	$839
Intel 486DX4-100 MHz	$879

PCI-Bus SYSTEM

Mini Tower
w/230 Watt Power Supply
3 - PCI Slots Motherboard
w/ 256KB Regular Cache
4 MB Main Memory
(72 Pin SIMMS)
1.44 MB (3.5") Floppy Drive
540 MB IDE Hard Drive
1 MB PCI Video Card
16 Million True Color Display
14" SVGA , N.I. Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66 MHz	$819
AMD 486DX2-80 MHz	$829
AMD 486DX4-100 MHz	$859
AMD 486DX4-120 MHz	$889
Cyrix 486DX2-66 MHz	$809
Cyrix 486DX2-80 MHz	$819
IBM 486DX2-80 MHz	$849
Intel 486DX2-66 MHz	$869
Intel 486DX4-100 MHz	$909

PENTIUM POWER!!

Mini Tower
w/230 Watt Power Supply
3 - PCI Slots Motherboard
w/ 256KB Regular Cache
8 MB Main Memory
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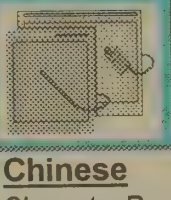

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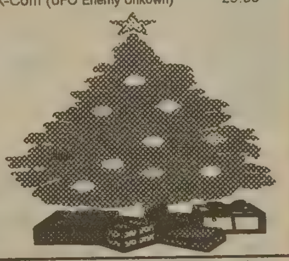

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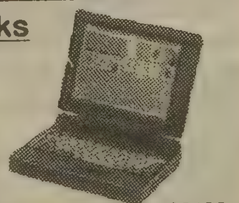

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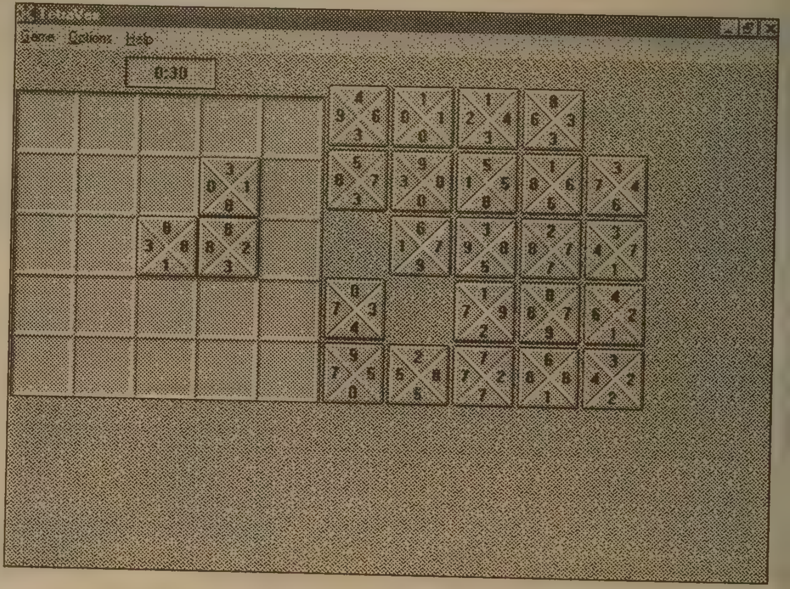
Dangerous Games

continued from page 22



TetraVex

ALL SOLITAIRE GAMES LEAD THE MIND TO STRATEGIC THINKING. IN ORDER TO SOLVE A SOLITAIRE DEAL, YOU MUST THINK BEYOND THE NEXT MOVE AND THE ONE AFTER THAT, TO SEE PATTERNS OR CASCADES OF SOLUTION.

companies and had an independent life before retiring to Microsoft's collection. But these are not somebody's leftovers. They are classics one and all.

They take up next to no space on your hard disk. The entire directory, including supporting files, is only a bit over 2MB. For that space you get thirteen games.

Those who love crosswords and other static-pattern puzzles, Microsoft has included Scott Ferguson's TetraVex. You are presented with a playing board of nine empty spaces in a square. You also have nine tiles. Each tile has a number on each of its four sides. Your task is to fit them together so that the "4" on one tile is next to the "4" on its neighbor. The puzzle forces you to look for patterns and to eliminate blind alleys in your mind before placing the tiles. You can work with boards from two-by-two spaces up to a mind-numbing six-by-six. If you prefer, TetraVex will present you with letters rather than numbers to match—or even Greek letters. I found TetraVex almost impossible to stop playing.

Another pattern game is Taipei. Your screen fills up with a stack of tiles, each marked with a symbol or a Chinese character. I understand these are the tiles used in Mah Jongg, a game which is played for blood in our neighborhood; but this is a much simpler sport. You need only find two matching tiles exposed to remove both of them. Your object is to remove all the tiles in the stack.

Five of the thirteen entertainments are card games. Blackjack is one of them, an opportunity to sharpen your skills before heading up to Reno. The other four are solitary vices. The simplest is Golf, perfect

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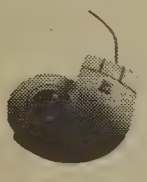

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3-Button Mouse

- Hi-Resolution
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- Serial Interface
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MouseMan

- 400dpi resolution
- Shaped to fit the hand
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- Includes Software
- Mac Version Available
- Factory Refurbished

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- 400dpi Resolution
- Serial Interface
- Factory Refurbished

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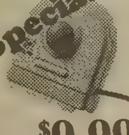
TrackMan Portable

- Ideal for Portables
- Clamps to side of keyboard
- Thumb operated 3-button design
- Serial interface or PS2 adaptable
- Includes Software
- Factory Refurbished



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- Hot new portable trackball
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- Factory Refurbished

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- 32 Gray Scale
- 100-400dpi
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- Factory Refurbished

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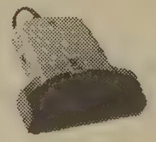
- 100-400dpi
- Includes Windows Software
- Factory Refurbished



reg. $199 $39.99

ScanMan Easy Touch

- Parallel interface, no board required
- 256 Gray Scale
- 100-400dpi
- Great for portables
- Includes Windows Software
- Factory Refurbished

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ScanMan Color

- For Windows
- 24-bit 16.8M Colors
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[illegible] needs

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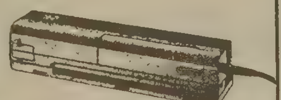

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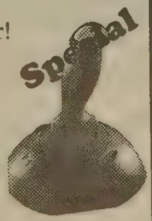

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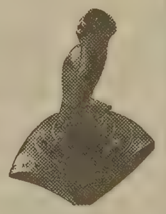

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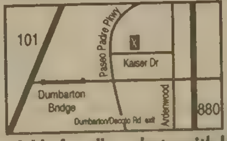

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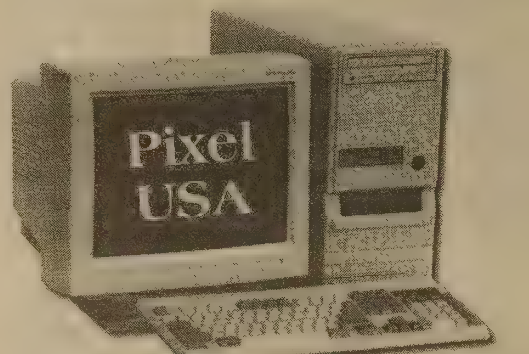

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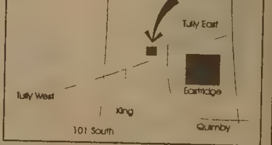

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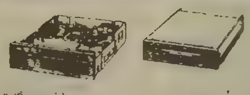

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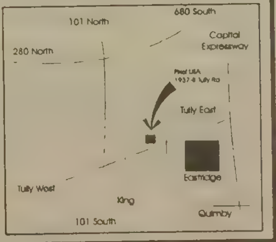

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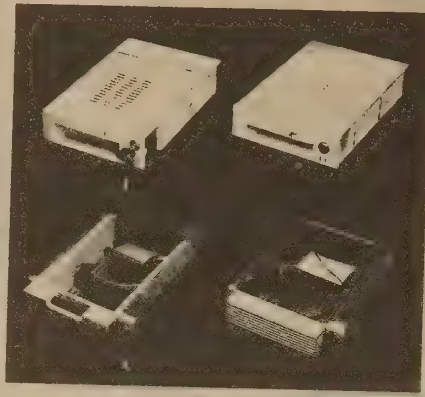

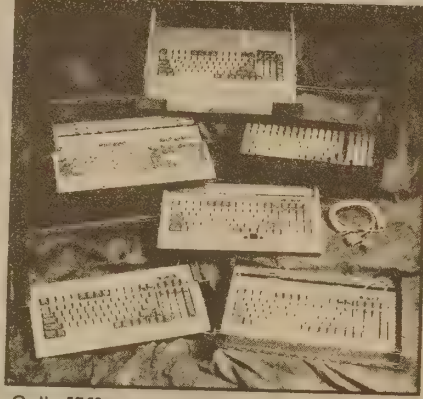

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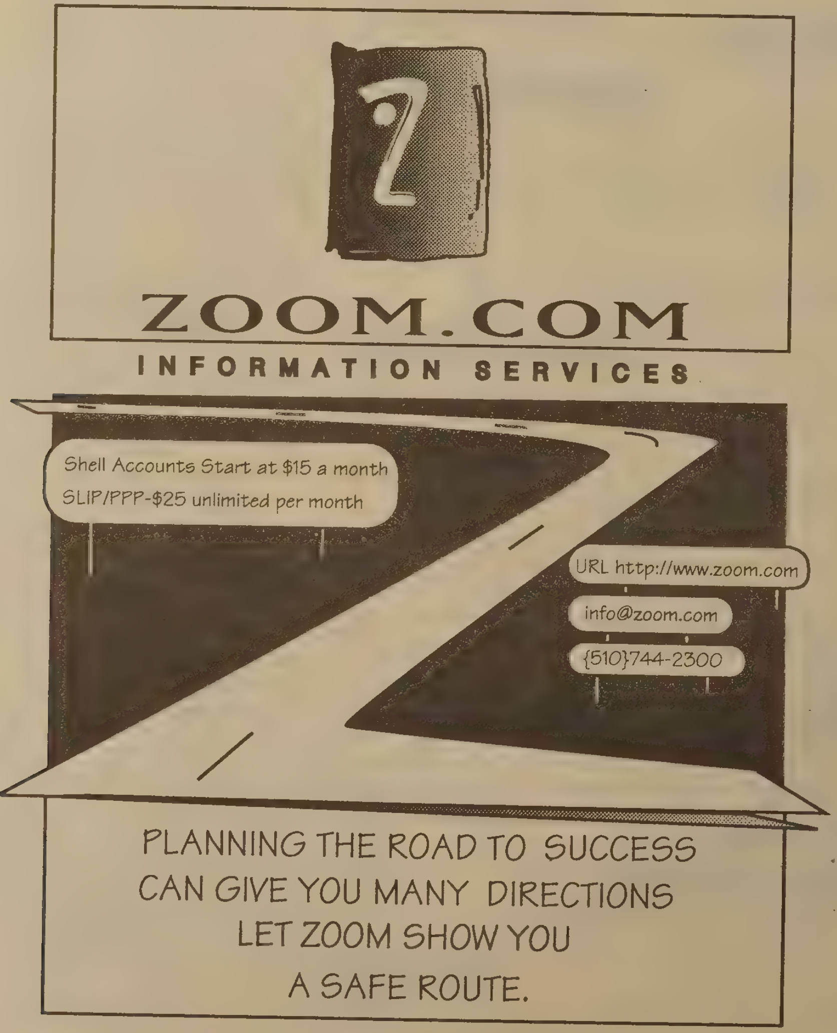

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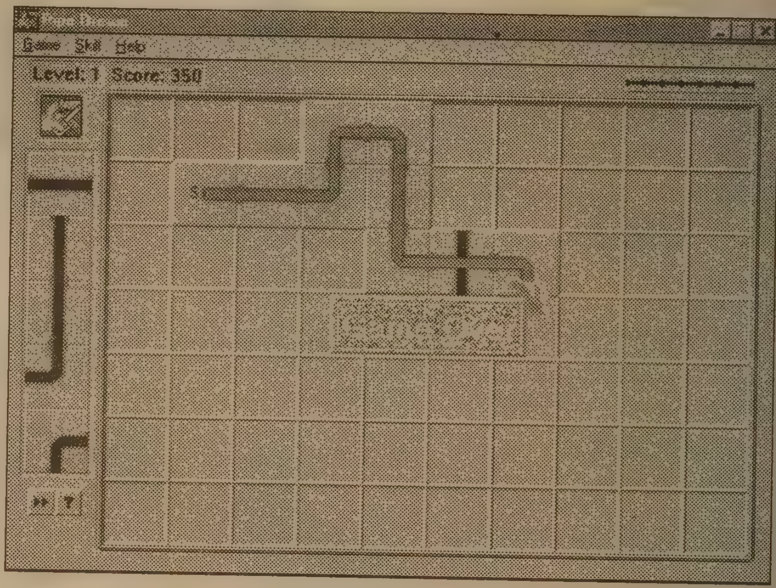
Dangerous Games *continued...*



Pipe Dream

company for a rainy day when you have not a wit in your head. The object is to exhaust piles of cards by moving them to the discard stack, with each card being one higher or one lower than the preceding.

At the other extreme is FreeCell, which you may have already gotten when you bought Windows 95. A single game can occupy you for many decades, as you try to verify that every game is (as the instructions allege) winnable. The game is structured much like the Tower of Hanoi puzzle, so to win the game may take hundreds or thousands of moves. Got a spare century?

My favorite of the card games is Tut's Tomb, so called because cards are presented to you in a pyramid, and your object is to remove the cards from the pyramid's bottom without getting stuck. All solitaire games lead the mind to strategic thinking. In order to solve a solitaire deal, you must think beyond the next move and the one after that, to see patterns or cascades of solution. "Ah, if I move this card, then that comes free, and then this over here, and that...." Solitaire games also teach you when to throw in the towel. There are some games you just cannot win: better a new deal than more blind thrashing.

Although there is often a clock running, the solitaire card game is essentially timeless. It is a pattern to be dissolved away by perceiving its structure and actualizing the insight.

Other games in the Entertainment pack are adrenalin-pumpers. You try to deal with a situation that changes as you work with it. Delay means disaster.

The mildest is certainly SkiFree. You operate a skier with your mouse, avoiding trees, children, rocks, and dogs crossing the trail while you attempt to set new speed records and make all the slalom turns. It's a good game to remind you of the bracing air and shining slush of the Sierras. To remind you of the price of a lift ticket, there is a monster that will rush from behind a tree and eat you up.

My favorite of the moving games is an old Lucas Game release, Pipe Dream. It resembles in every way the daily running of a business. As you start up, you have an "uncapped pipe." It is a source for all the stuff you have to deal with during the day. Pretty soon green

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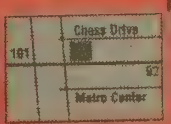

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Dangerous Games *continued...*

goo begins to run out of the source. This is surely what Proclus (the last of the great pagan Platonists) had in mind when he spoke of the "flowing Being." You must lay pipe to route the green stuff away. You must lay it faster than the green stuff can flow in. Your pipes come in preshaped (and usually wrongly-shaped) pieces, so you must often toss pieces of pipe into a route you have not yet had time to design, while desperately rushing to get the one pipe-shape which will avert this minute's disaster.

Pipe Dream makes a fine metaphorical exercise for daily business life. It hones the wit, that practical make-do cunning without which every business plan is—well, a pipe dream.

There are two real-life adventure games, one featuring a mouse and one featuring a child named Chip. I have nothing against them, they just failed to capture me.

Perhaps the most simply beautiful of all the entertainments is Jezzball. Spinning balls bounce around a chamber. Your task is to confine them by building walls. As they become more confined, they move faster; and your task becomes that much harder. It is a peculiarly simple game, and you find yourself continually edging toward perfection. Quite lovely, this work by Dima Pavlovsky.

I fell quickly into that remnant of Soviet Imperialism, Tetris. Yes, just when you thought you were safe from Elorg and its dreaded programmers, Alexei Pazhitnov and Vadim Gerasimov, Microsoft brings back their brainchild in a Windows 3.1 and 95 compatible format. Again you can lose whole hours to the falling blocks, mindlessly building towers whose whole purpose is to have the lower floors compact and vanish. If you have not ever played Tetris, remember: Like Plato's cave, it is fascinating and traps the soul.

Bless you, Mr. Bill, for preserving and remarketing these charming and addictive games. ■

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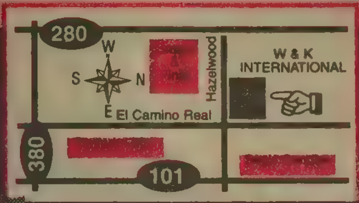

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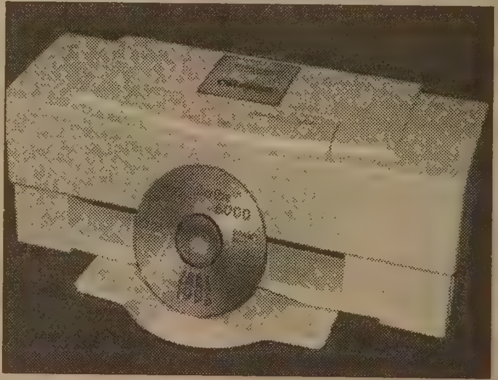
New Products...

continued from page 216

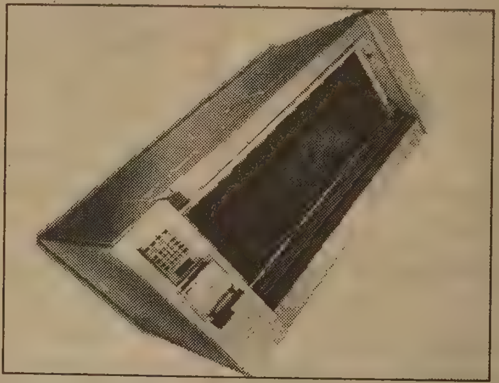
at up to 2ppm. In addition, the DeskJet 855C features a special Econofast mode, which prints black at 7ppm and color at 3ppm. They use a pigment-based ink for higher-density black text than other inkjet printers; HP's Resolution Enhancement technology for crisp edges and smooth curves; and Color Resolution Enhancement technology for greater color intensity, superior lightfastness, and no bleeding between colors. The 855C comes with a Kodak Photo CD offer that makes it easy to add photographs to documents. (DeskJet 850C, $658; DeskJet 855C, $663) Hewlett-Packard, 3000 Hanover St., Palo Alto, CA 94304. 1-800-752-0900 or *http://www.hp.com* .

ColorScribe 6000



The ColorScribe 6000 offers a complete solution for printing graphics on CD-Recordable media along with a method to create and print insert material for standard CD jewel case packaging. It is a fullcolor inkjet printer using process color technology to label CD-R media designated as "printable" by the media manufacturers. ($2995) Craig Associates International, (408)254-0395.

Xerox 8954 Series III



The Xerox 8954 Series III, a digital printer for full-color output up to 53.28" wide by any length up to 400', offers several advantages over the previous generation of products. Top speed has been increased from 3ips (inches per second) to 4ips, allowing the printer to produce a full-color, poster-sized image directly from a digital file in about two minutes. Other advantages include improved registration from .016" to .001", and a 300dpi model has been added to the current line of 200 and 400dpi versions. The different models allow customers to

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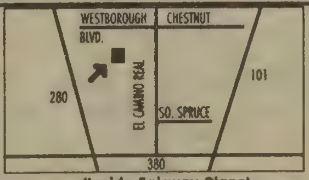

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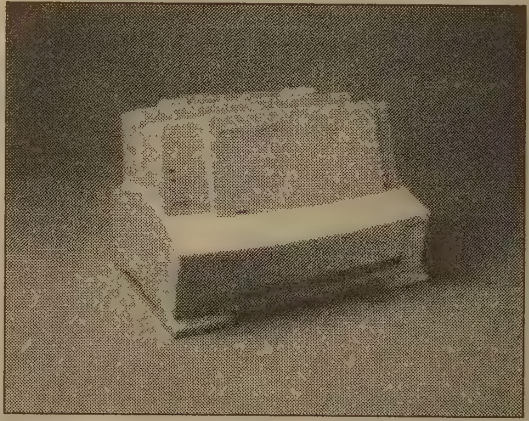
New Products...

choose the resolution level best suited to their applications. ($84,900, for the 200dpi model to $99,900 for the 400dpi model; the improvements in print speed are available as upgrades to existing Xerox 8954 Series II printers) Xerox ColorgrafX Systems, Inc., 5833 Rue Farrari, San Jose, CA 95138. (408)225-2800.

HP LaserJet 5L

The HP LaserJet 5L is Hewlett-Packard's newest personal laser printer designed for fast, high-volume printing in small businesses. Replacing the HP LaserJet 4L printer, the LaserJet 5L features a slimmer, vertical design that takes up less space while offering 600dpi print quality with twenty-six TrueType scalable typefaces. This is the first LaserJet to feature HP's new PrintSmart, a suite of technologies that delivers faster and easier printing for Windows users. A full-featured trial version of Intuit's QuickBooks 3.1 comes bundled. HP's Enhanced LaserJet Printing System for Windows and HP's Memory Enhancement technology provide users with faster printing of complex documents and a quicker return to application. These speed enhancements, along with a faster processor and accelerated I/O handling, are designed to save small-business customers time and money. ($586) Hewlett-Packard Co., Direct Marketing Organization, PO Box 58059, MS511-SJ, Santa Clara, CA 95051-8059. 1-800-752-0900.



Canon LBP-460

The LBP-460 is the newest 600dpi, 4-pages-per-minute, Windows-compatible personal paser printer from Canon, offering value and quality for home offices or small businesses. It features a straight paper path and a built-in sheet feeder that holds one hundred sheets of letter or legal size paper. The CD-ROM packaged with each printer includes more than three hundred TrueType fonts and more than three hundred clip art images and borders. The printer's technical advances are complemented by a space-saving, energy-efficient design that fits easily into almost any home or small business environment. ($379) Canon Computer Systems, Inc., 2995 Redhill Ave., Costa Mesa, CA 92626. (714)438-3000, 1-800-848-4123.

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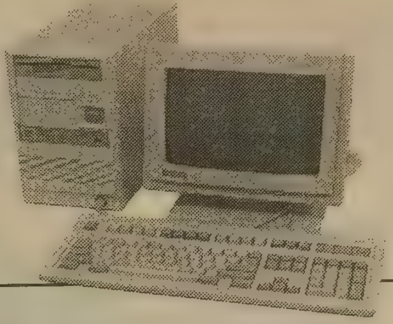
ComTek Computer



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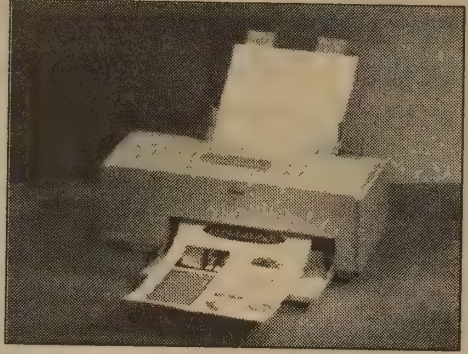
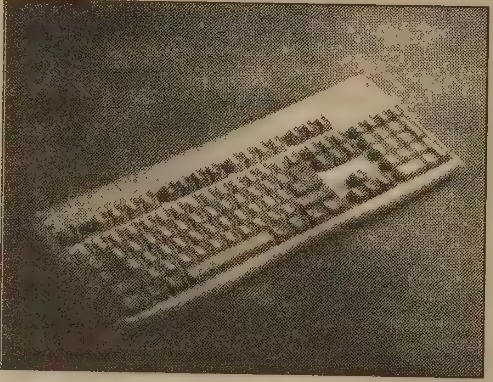
Epson Stylus Color II

The Epson Stylus Color II color inkjet printer is targeted for the corporate, small office, and home office users. Based on Epson's four-color piezoelectric technology, the printer offers 720 x 720dpi "Photo Quality" resolution and prints at 3.5 pages per minute. It is Macintosh and PC compatible directly out of the box and can work with both platforms simultaneously, and complies with the EPA Energy Star Program. The printer carries a two-year limited warranty that can be extended for a minimal charge. ($649) Epson America, Inc., 20770 Madrona Ave., Torrance, CA 90503. (310)782-0770.



Keyboards & Pointing Devices

ZW 104 keyboard



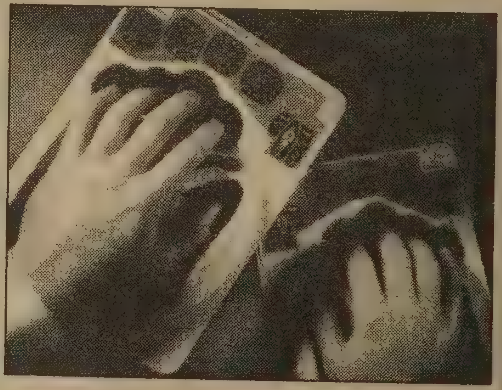
Mitsumi's ZW 104 keyboard includes three new keys that make Windows computing easier. A Windows Key is used by the Windows 95 operating system as a hot key to allow easy access to functions such as task switching and instant availability of the Task Manager window. Two additional Application Keys are supported by applications designed for Windows 95 for a variety of ease-of-use and productivity-enhancing functions. Additionally, the ZW 104 keyboard has been designed for ergonomic comfort. ($34.95) Mitsumi Electronics Corp., 6210 N. Beltline Rd., Suite 170, Irving, TX 75063. (214)550-7300.

Touché Touch Pad

Based on Synaptics, Inc.'s award-winning neural-based human interface technology, Touché Touch Pad replaces mechanical pointing devices such as mice or trackballs with an intuitive device that lets users drag, click, and double-click with a finger motion across a touch-sensitive surface. With Edge Motion, when users drag objects on-screen and their finger reaches Touché's edge, the cursor continues in the same direction until the finger is lifted or gently rolled back. This allows users to reach their cursor destination in one fluid motion. Touché's X-Y-Z Mode enables left and right motion and offers pressure sensitivity so users can drag and double-tap objects with the touch of a finger. Control Panel software allows users to adjust touch sensitivity, customize features, and enable or disable gestures. Touché Touch Pad is available for serial, PS/2, and ADB interfaces. ($59.99) International Technologies Associates, 3000 Bridgeway Blvd., Sausalito, CA 94965. (415)331-6622.

DataHand System

The DataHand Professional I-B ergonomic keyboard offers both increased productivity and the elimination or reduction of repetitive motion injuries. It reduces repetitive keystroke motion up to 80% and reduces finger travel to one-fifth of a traditional keyboard. With the DataHand System each finger rests in a finger well, surrounded by five keys. To activate each of the five separate key surfaces the finger is moved backward, forward, left, right, or downward. Even the mouse is controlled by the index finger without moving the hands. The DataHand System works with all PC compatibles, Macintosh, IBM 3270, and IBM RS 6000 computers. Custom adaptation to fit any plug-detach-



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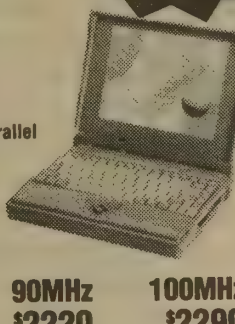

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8MB RAM

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Dual Scan Color	$2120	$2220	$2290
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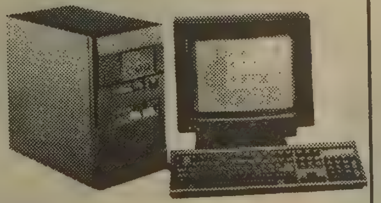

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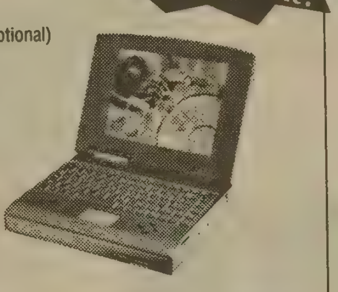

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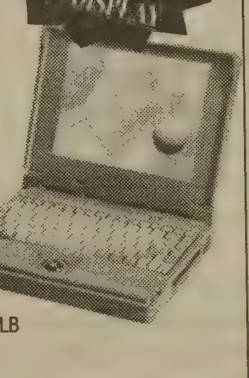

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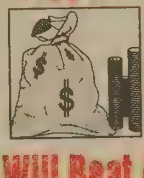

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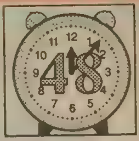

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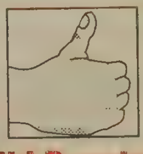

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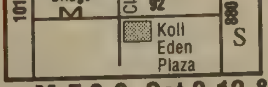

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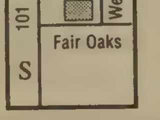


able keyboard equipment is possible. ($995) DataHand Systems, Inc., 10789 N. 90th St., Scottsdale, AZ 85260. 1-800-875-7171. URL: *http://www.indirect.com/www/datahand/*

Cordless Mouse Pen

The Cordless Mouse Pen frees the user from the constraints of both the cable and the mouse pad. The natural pen shape makes it ideal for graphics, painting, and CAD applications. Using miniaturization to combine infrared, mouse, and battery technology together in a narrow pen-shape, the Cordless Mouse Pen communicates with the computer from up to 10' away. Unlike a standard mouse, it works on any surface and at any angle. It will operate for eight hours on a full charge and can be used while it is recharging. It can be used with any portable or desktop PC, comes with its own driver, and is compatible with Windows. ($174.95) Fellowes Manufacturing, Inc., 1789 Norwood Ave., Itasca, IL 60143-1095.

Right Touch Professional Keyboard

The Right Touch Professional keyboard (model RT-8200WIN), a mechanical keyswitch keyboard, is designed to save keystrokes in operating Windows 95 software. The three Windows 95 function keys are: application, left Windows, and right Windows. These keys simplify existing combination keystrokes like Alt, Tab, Ctrl-Esc, or right mouse button clicks to singlekey operations using the Windows 95 software. In addition, it features Erase-Ease to tackle the awkwardness of reaching the backspace key. Erase-Ease moves the backspace key from its traditional location in the upper right to a split space bar, easily accessible by the thumb. The right part of the space bar is used for normal spacing; the left part to backspace/erase. ($69.99) NMB Technologies, Inc., 9730 Independence Ave., Chatsworth, CA 91311. (818)341-3355. 1-800-662-8321.

ConcertMaster

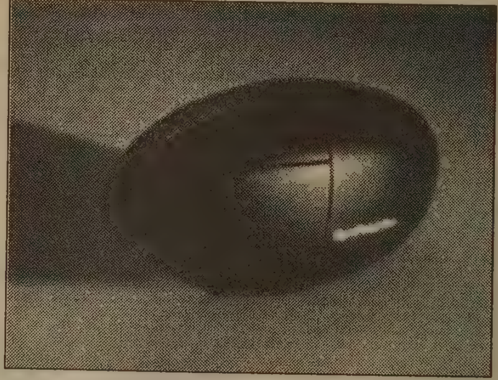
The ConcertMaster multimedia keyboard features SRS Labs' 3-D stereo, which creates a surround sound experience, and brings all sound/audio controls to the keyboard. This includes volume, mute, SRS stereo on/off, and a built-in microphone for recording. The keyboard also includes three side jacks for headphone, microphone, and subwoofer, and an integrated shielded speaker system with 2+2 watt amplifier. Three new keys allow quick access to Windows 95 software for increased user functionality. The SRS stereo capabilities differ from traditional sound expansion techniques because SRS is based on the human hearing system. It retrieves the spatial information from recordings and restores the original three-dimensional sound field. As a result, the reproduced sound is much closer to a live performance. ($189.95) NMB Technologies, Inc., 9730 Independence Ave., Chatsworth, CA 91311. (818)341-3355.

Sejin Wireless Keyboard

The Sejin Wireless keyboard (model SPR-8630WP) can be used from up to 20' away with over nine hundred continuous hours on just two AAA batteries, which are included. The keyboard is a true plug-and-play device, operable by simply connecting the infrared receiver to the keyboard port on the PC and inserting the batteries into the keyboard itself. This is a notebook-size keyboard with full-size keys, giving you more room on your desk without sacrificing comfortable, easy keystrokes. Included with the keyboard is the infrared receiver, a PC/AT 5-pin cable that connects the receiver to the PC, a 6-pin PS/2 adapter, two AAA batteries, and a user's manual. ($99.95) Sejin America, Inc., 2004 Martin Ave., Santa Clara, CA 95050. (408)980-7550.

GyroPoint Pro

The GyroPoint Pro, a wireless RF pointer for presentations, resembles and operates just like a desktop mouse with the added advantage of cordless operation, allowing presenters to control the software application on the computer screen from up to 75' away from the computer. Unlike other wireless pointers, the GyroPoint Pro does not require any special drivers, and features a built-in radio transmitter. The transmitter frees users from having to align the pointer with the receiver to move the computer's cursor. It is 100% compatible with Windows 3.1x or later, Windows NT, Windows 95, the Apple Macintosh, and PowerPC computers, as well as Philips CD-i. ($399) Gyration, Inc., 12930 Saratoga Ave., Building C, Saratoga, CA 95070. (408)255-3016, 1-800-316-5432.

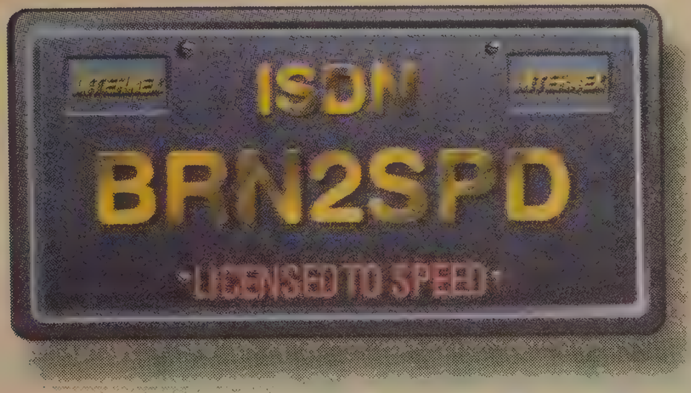


GyroPoint Desk

This new pointing device combines standard on-the-desk mouse features with "in air," free space movement to allow users to surf, scan, and select software applications in a more intuitive and responsive

continued on page 280

Satisfy Your Need For Speed.



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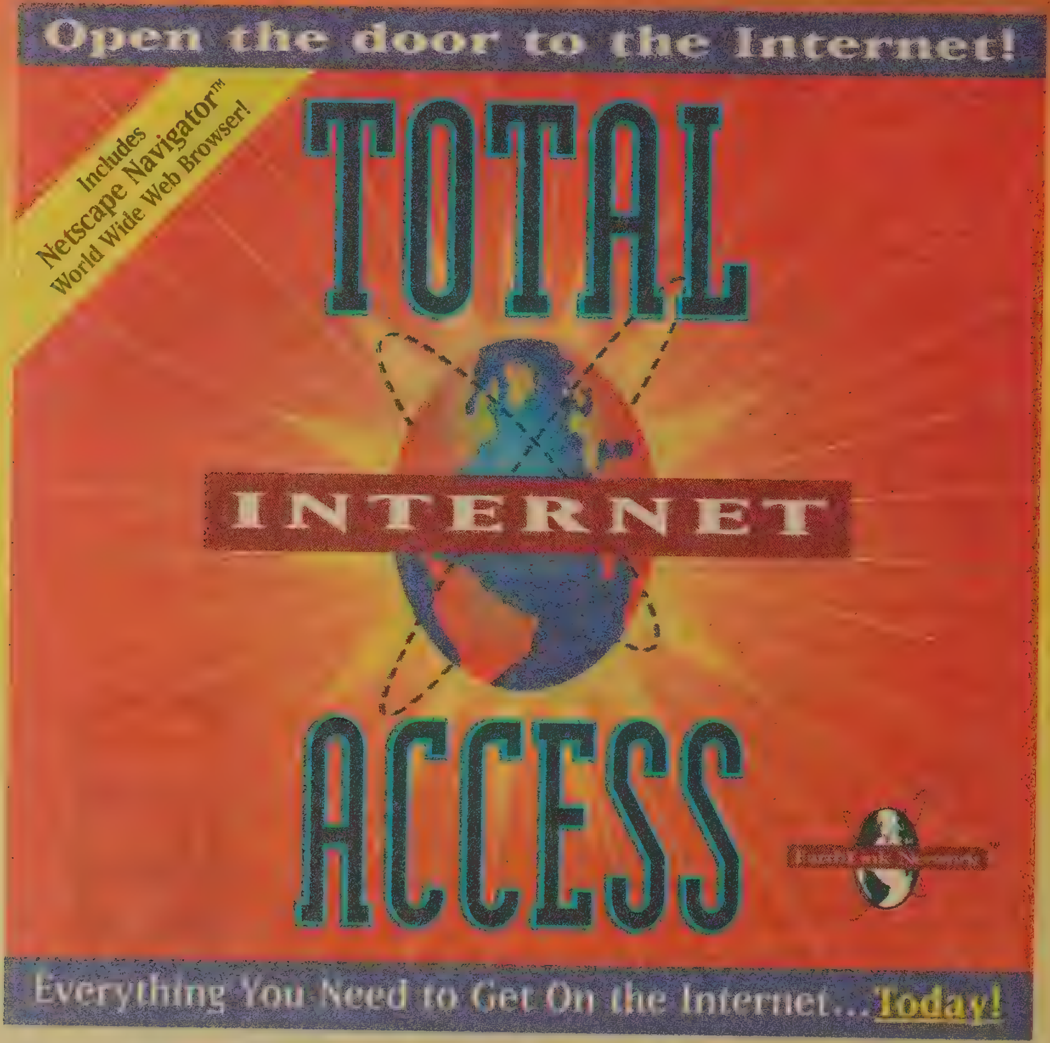

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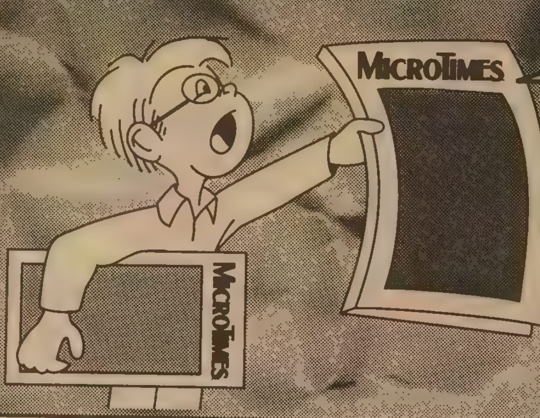

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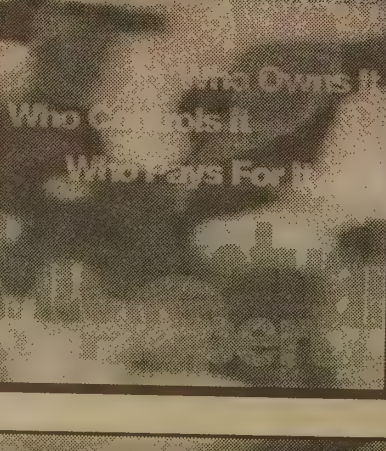

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Holiday PC Shareware Roundup

continued from page 82

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New Products...

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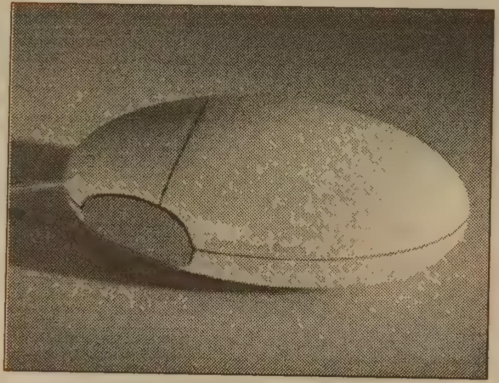
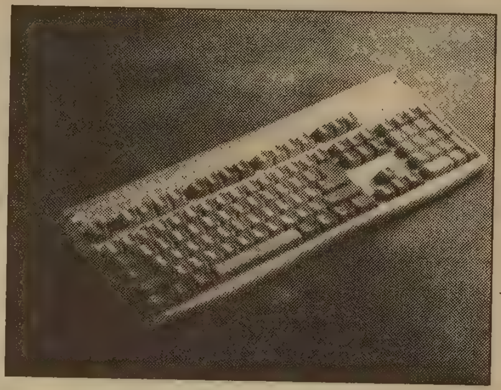


way than using a traditional mouse. The GyroPoint Desk allows users to manipulate the computer cursor by picking up the device and moving their wrist in the direction they would like to move the cursor: up, down, left, right, or diagonally. Inside are two gyroscopes that sense the motion and move the cursor. The ergonomic GyroPoint desk provides a full 360 degrees of freedom. It works with standard Microsoft Windows or Logitech drivers, or Apple mouse drivers. ($149) Gyration, Inc., 12930 Saratoga Ave., Building C, Saratoga, CA 95070. (408)255-3016, 1-800-316-5432.

TrackMan Marble

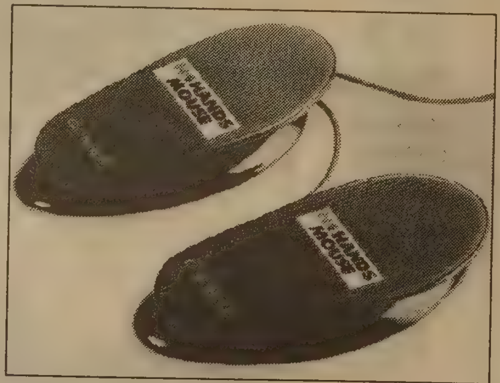
This thumb-operated trackball with new "Marble" electronic sensing technology for tracking ball movement offers users virtually maintenance-free operation. In Marble sensing technology, a sensor embedded in the pointing device remotely tracks the movements of a random pattern of dots printed on an inner layer of the trackball, which is itself protected by a special coating. This unique technology eliminates tracking problems related to dust particles, and the TrackMan Marble can thus maintain accuracy under a variety of adverse conditions. Additionally, Logitech's MouseWare software permits the operation of multiple pointing devices in the Windows environment. The device is plug-and-play ready, offering automatic identification and configuration per device and the ability to hot plug under Windows 95. System requirements for TrackMan Marble include a PC running DOS 3.3 or higher, and an available serial port or mouse port. ($99) Logitech, Inc., 6505 Kaiser Dr., Fremont, CA 94555. (510)795-8500, 1-800-231-7717.

Mitsumi Wireless Mouse



Mitsumi's wireless two-button mouse for PCs communicates via radio to a transceiver that attaches to the PC via the standard mouse serial port. Consumers can use the mouse anywhere on their desktop within a range of 1 meter. It operates at 4800bps and has a resolution of 400cpi, and the lithium battery provides up to three years of power assuming typical usage. The holder/receiver connected to the PC provides convenient storage when the mouse is not in use. ($49.95) Mitsumi Electronics Corp., 6210 N. Beltline Rd., Suite 170, Irving, TX 75063. (214)550-7300.

NoHands Mouse



The NoHands Mouse utilizes two interchangeable foot pedals: one pedal features a proprietary 360 degree pressure sensitive mechanism that allows the user to control both cursor speed and direction with one foot, while the second pedal is used as a clicking device. You can type and control the cursor, point and click, and drag and drop without taking your hands off the keyboard. Because the feet are used, the time taken to move the hand back and forth between the keyboard and mouse is eliminated, as is the problem of carpal tunnel syndrome due to mouse use. ($125, available in January) Hunter Digital, 11999 San Vicente Blvd., Suite 440, Los Angeles, CA 90049. (310)471-5852.

Books

Web Head

Web Head
The Mac Guide to the World Wide Web
Mary Jane Mara

Web Head, by Mary Jane Mara, helps readers explore the frontiers of the World Wide Web at the same time that it teaches them how to carve out a piece of the territory for themselves. It begins with a short history of the Web and explains its relationship to the Internet. It also offers an in-depth look at the three leading (Macintosh) programs used to browse the net—Netscape, MacMosaic, and MacWeb. Throughout the book, there's plenty of practical information on topics such as fine tuning one's system, external helper applications, navigation techniques, writing Web pages, setting up a Web server, and more. Plus there is a glossary of Web terms, a list of Internet service providers, and a handy glossary of HTML terms. ($24.95) Peachpit Press, 2414 Sixth St., 94710. 1-800-283-4393.

25 Steps To Safe Computing

Each year more than ten million computer users are treated for computer-related health ailments. In *25 Steps to Safe Computing*, author Don Sellers has taken a calm and reasoned approach to the health issues involved in computer use. He main

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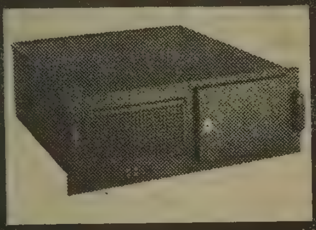

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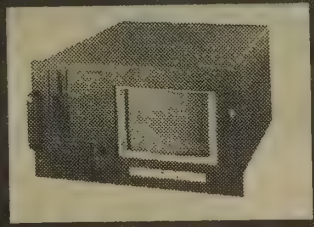

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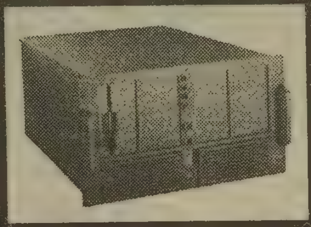

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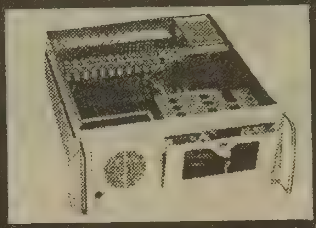

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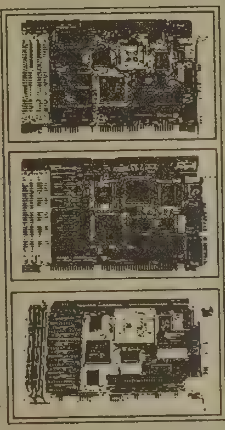
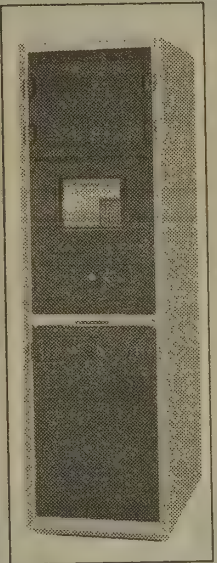


CENTRALIZED LAN SYSTEM



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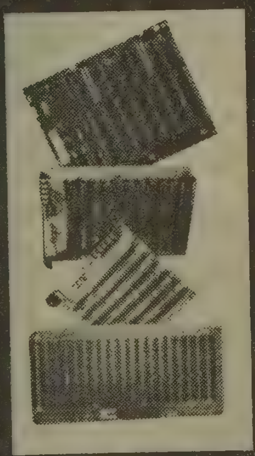

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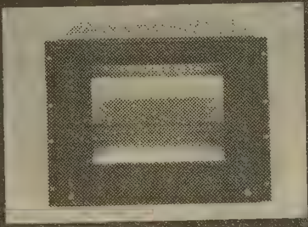

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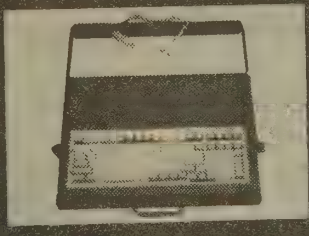

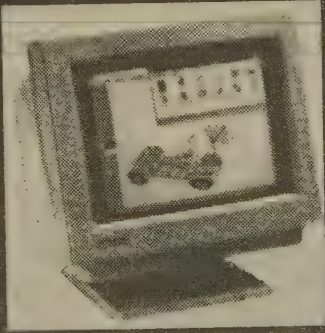

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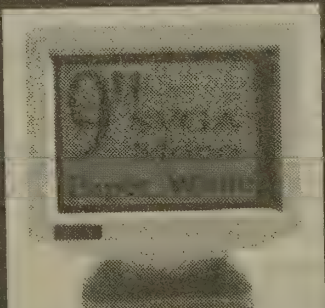

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Princeton (MAG made) Ultra 17 - 17" Digital Control, 30-64KHz, 0.28DP, upto 76Hz, 1280x1024NI, Green, VESA DPMS, Full User Control, Auto-switching, 3 year warranty........
IIYAMA VisionMaster MF-8617E 17" FST .26DP, PnP, Microprocessor Contrl, 1280x1024@80Hz, VESA DPMS........
IIYAMA VisionMaster MT-9017E 17" Tension Mask, .25DP, PnP, 1280x1024@85Hz, VESA DPMS........
IIYAMA VisionMaster MT-9021E 21" Tension Mask, PnP, 1600x1200@75Hz, Onscreen Programming........ $1795
Nanao T2-17 - Trinitron17" .25DP,16Kx12K@66Hz, 130Mhz Bndwth, 140W operation, 15W@StandBy, 8W@off ......
Nanao T2-17TS - Trinitron17" .25DP,16Kx12K@66Hz, 110Mhz Bndwth, 110W operation, 10W@StandBy, 5W@off ......
Nanao T2-20 - Trinitron 20" .30DP 16Kx12K@66Hz........
Nanao F2-17 17" .28DP 1280x1K@66Hz........
Nanao F2-17EX 17" .26DP 16Kx12K@66Hz........
Nanao F2-21 21" .28DP 16Kx12K@72Hz........
Nanao FX2-21 21" .28DP 16Kx12K@82Hz........
Viewsonic 14ES/15ES/15G/15GS/17GS/20G/15GA/17GA/17PS/20PS/21PS/17EA........
Hitachi, Sony, NEC, ADI, Nokia Monitors........

Modem

Digicom 14.4K/28.8K Fax+Data Internal 16550 UART........
Cardinal 14.4K/28.8K Fax+Data+VoiceView Int. Win95 Rdy...
Cardinal 28.8K V.34 Fax+Data Internal........
USR Sportster SI 14.4K Fax+Data Internal/External........
USR Sportster 14.4K Data/Fax Internal/External. ....
USR Sportster 28.8K V.34 Data/Fax Internal/External........
USR Sportster VI 14.4K Fax w/ Persnl Voice Mail Int./Ext........
USR Sportster VI 28.8K Fax w/Persnl Voice Mail Int./Ext........ $244
Boca SoundExpression 14.4K V.32Bis Data/Fax/Voice-mail, Speak phone, 16Bit Sound Blaster Surround Sound, CD-ROM interface.
Boca SoundExpression 28.8K V.34 Data/Fax/Voice-mail, Speak phone, 16Bit Sound Blaster SurroundSound, CD-ROM interface.
MiroConnect 34 Wave - VoiceMail, SpeakerPhone, 28.8K V.34 Data + Fax, Wavetable sound, Internet access, CD-ROM interface...... $275

Floppy/Tape Backup

Mitsumi/Sony 1.44M 3.5"........
Teac 1.2M 5.25"/1.44M 3.5"........
Teac Dual 1.44M & 1.2M Combo........
Conner 420MB TapeStor Travan Int. off floppy TST420 w/tape........
Conner 800MB TapeStor Travan Int. off floppy TST800 w/tape........
Conner 3.2GB TapeStor Travan Int. off floppy TST3200 w/tape........
Colorado 400-800MB C4320B Backup Travan off floppy w/tape..
Colorado 350MB DJ35C Backup off floppy QIC-80........
Colorado 1.4GB DJ50 Backup off floppy QIC30/20........
Colorado 800MB T-1000 Travan off floppy QIC-80........
Colorado PowerTape PT25 2.0GB/PT50 4.0GB SCSI 1/4"......
Colorado PowerTape PD60 2-4GB SCSI-2 DAT........
Tape Cartridges for Colorado Backup........

Keyboard/Mouse/Case/Software/Misc.

Mitsumi 101 Enhanced Keyboard........
KeyTronic 101 Enhanced U.S.Made........
Keytronic 101 ProTouch E05105 U.S.Made........
NMB 104 key Win 95 Keyboard - Windows 95 Ready........
Focus 2001 101 Enhanced Click w/Cover........
Focus 8000 111 with Calculator........
Focus 9000 129 Programmable w/Calculator........
MicroSoft Natural Keyboard........
NorthGate OmniKey 101NI/102........
MS 3-Button Mouse........
MicroSoft Ergonomic Serial/PS 2 type........
Logitech First Mouse........
Logitech Mouseman Serial/PS 2 type........
MS DOS 6.22/Windows V3.11/WFWG V3.11........
MS Windows 95 Upgrade Disk/CDROM Retail version........
MS Windows 95 Full Disk Retail/CD-ROM OEM version........
MS Windows NT V3.51 Workstation/Server........
Novell Netware V3.12/V4.1 CD-ROM........
Premium Case w/230W Mini/Desktop/Med........
Premium Case w/250W Full Size Tower........
Server Class Super Case w/230W PS w/ detachable front panel, Dual side door open, solid construction, slide-in Drive Bay, Dual pull fans, lots of bays, Medium/Full Tower........
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height........
Power Supply PS-2 Type 230W/250W/300W........
486/P5/P6 CPU Cooling Fan w/heat sink........
Chassis Second Cooling Fan 3" or 3.5"........
Motherboard Crystal for 25/33/40/50/66/80MHz........
Printer Cable 6"/10"/15"/25"........

CD-ROM Drive

Sony CDU-76E Quad Speed ATAPI IDE........
Mitsumi FX-400B Quad Speed 230MS 600KB/s, ATAPI IDE. ....
Toshiba FM-5302B QuadSpeed IDE 256K Cache 150ms, 600KB/Sec, MultiSpin/Spd Internal........
Toshiba XM-3701B SixSpeed SCSI-2, 900KB/Sec, Internal........
Panasonic CD-504B Quad Speed ATAPI SCSI-2 600KB/s........
Plextor 4-Plex 256 QuadSpd PX-43CS, SCSI-2, 600Kb/sec, internal 125ms seek, 256K Buffer, Caddy, 2-yr warranty........
Plextor 4-Plex Plus QuadSpd PX-43CE, SCSI-2, 675Kb/sec, internal 100ms seek, 256K Buffer, Caddy, PnP/SCAM, 2-yr warranty......
Plextor 6-Plex 6Xpeed PX-63CS 900Kb/sec, internal 115ms seek, 256K Buffer, 2-yr warranty........
NEC SixSpeed CDR-512 Internal SCSI-2........
Diamond 800 8XI, 1200KB/s, IDE Internal........
Turtle Beach 8XI 140ms, 1200KB/s, 256K, IDE Internal........
Teac/Sanyo/NEC CD-ROM........
CD-ROM Caddy........

Sound Card/Speaker/Multimedia Package

Media 690 Hi-Fi Amplified Stereo Speakers........
80W TopTek Amplified Stereo Speakers........
120W MultiMedia Amplified Speakers........
Sound Blaster 16 SCSI-2........
Sound Blaster 32 PnP w/ IDE Interface........
Sound Blaster AWE32 Advance Wave Effect w/ PnP........
Sound Blaster Vibra 16 Stereo w/IDE Interface OEM........
Sound Blaster Advanced Signal Processor Upgrade........
MS CD titles including Encarta 95, Works, Money, Explorapedia:World of Nature, Dangerous Creatures, World of Flight, Scenes: Undersea Collection, 55+Title CD Samplers........
Audio Cable - CD-ROM to Sound Card........

Hard Drive

850MB IDE CFS850A........
1.2GB IDE CFS1275A........
1.06GB Fast SCSI-2 CFP1060S........
2.1GB Fast SCSI-2 CFP2105S........

640MB IDE WD2635A - Enhanced IDE Mode-3........
850MB IDE WD2850A - Enhanced IDE Mode-3........
1.2GB IDE WD31200A - Enhanced IDE Mode-3........
1.6GB IDE WD31600A - Enhanced IDE Mode-4........

1.28GB FireBall IDE Fast ATA-2 QM31280FBA........
1.08GB FireBall Fast SCSI-2 QM31080FBS........

2.1GB Hawk ST32430N Fast SCSI-2 54KRPM, 512K........
4.3GB Hawk ST15230N Fast SCSI-2 54KRPM, 512K........
2.1GB Barracuda ST32550N Fast SCSI-2 8.5ms 3.5" 72KRPM, 1MB....
4.3GB Barracuda ST15150N Fast SCSI-2 8.5ms 3.5" 72KRPM, 1MB..

Seagate 2.1GB Hawk ST32430W Fast Wide SCSI-2........
Seagate 4.3GB Hawk ST15230W Fast Wide SCSI-2........
Seagate 2.1GB Barracuda ST32550W Fast Wide SCSI-2........
Seagate 4.3GB Barracuda ST15150W Fast Wide SCSI-2........
Seagate 9.0GB Elite ST410800W Fast Wide SCSI-2........
Fujitsu 1.08GB Fast Wide SCSI-2 256K 10ms M2694EQA........
Fujitsu 2.1GB Fast Wide SCSI-2 512K 10ms M2915QAW........

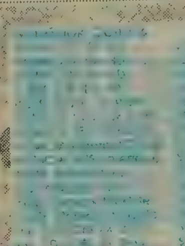
Quantum 2.1GB Empire II VP32181 512K 54kRPM 9ms Ultra Wide..
Quantum 4.3GB Empire II VP34360 512K 54kRPM 9ms Ultra Wide..
Quantum 9.1GB Empire II VP39100 512K 54kRPM 9ms Ultra Wide..
Quantum 2.1GB Altas II XP32181 1MB 72kRPM 8ms Ultra Wide......
Quantum 4.3GB Altas II XP34360 1MB 72kRPM 8ms Ultra Wide......
Quantum 9.1GB Altas II XP39100 1MB 72kRPM 8ms Ultra Wide......
Seagate 2.15GB Barracuda 4LP ST32171W Ultra Wide........
Seagate 4.35GB Barracuda 4LP ST34371W Ultra Wide........

PATRIOT 6000A - 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster

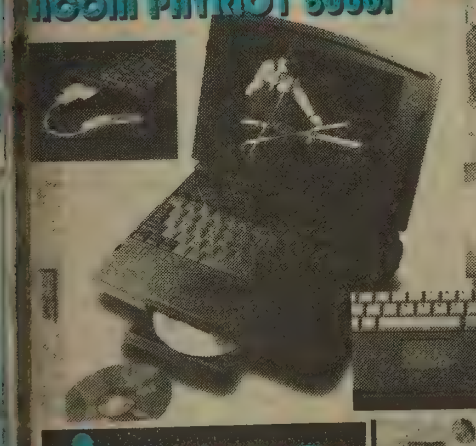
(540/810MB/1.3GB HD)	Dual Scan	Active Matrix
486DX4-100Mhz	$2090/$2219/$2381	$2557/$2714/$2878
Cyrix 5X-120Mhz	[illegible]	[illegible]

PATRIOT 8000i - 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster

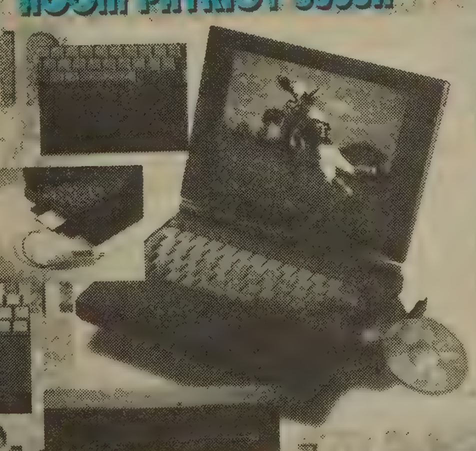
(540/810MB/1.3GB HD)	Dual Scan	Active Matrix
P5-75Mhz	$2322/$2457/$2614	$2657/$2791/$2948
P5-90Mhz	[illegible]	[illegible]
P5-100Mhz	$2462/$2597/$2754	[illegible]



ACOM PATRIOT 8000i



ACOM PATRIOT 6000A



ACOM PATRIOT 8000i SPECIFICATIONS

CPU
- Intel Pentium 75/90/100 CPU

BIOS
- 1MB Phoenix systems Flash BIOS

CACHE
- 256KB level 2 cache monery onboard

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit PCI VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Ports
- 2 x9 pin serial ports (16550 UARTs)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x 15 pin MIDI/joystick port
- 1 x 6 pin PS/2 keyboard/mouse port
- 1 x RCA composite video port
- 1 x 4 pin mini-DIN S-video port
- 1 x200 pin docking interface

Wireless Link
- Built-in IrDA compatible HP infra-red Transmitt module

Audio
- Built-in speakers and microphone
- Built-in 16bit Vibra audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery
- Second battery pack can be installed in place of FDD

Dimemsion
- 9.25"(D) x 11.8"(L) x 2.04"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x/4x ATAPI IDE CD-ROM drive
- MPEG-1 playback module
- Car adaptor
- SmartDock docking station

ACOM PATRIOT 6000A SPECIFICATIONS

CPU
- 486DX4-100Mhz or Cyrix5X-100/120Mhz

BIOS
- 1MB Phoenix systems Flash BIOS

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit VLB VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot

I/O Ports
- 1 x9 pin serial port (16550 UART)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x200 pin docking interface

Wireless Link
- Built-in IrDA compatible HP infra-red Transmitt module

Audio
- Built-in speakers and microphone
- Built-in 16bit Vibra audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery

Dimemsion
- 8.82"(D) x 11.5"(L) x 1.89"(H)

Weight
- 6.2LBS (with battery)

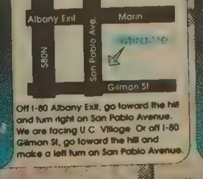
Optional devices:
- 5.25" 2x/4x ATAPI IDE CD-ROM drive
- Car adaptor
- SmartDock docking station

Miracle

Miracle MicroSystems
44063 Fremont Blvd. Fremont CA 94538
Phone 510 226 6746 Fax 510-226-6758
1027 San Pablo Ave. Albany CA 94706
Phone 510 526 0271 Fax 510-526-0273
1501#E El Camino Rl. Belmont CA 94002
Phone 415-592 3333 Fax 415 592 2919

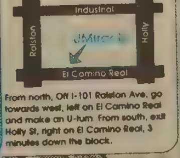
DISCOVER
ATM
VISA

Albany Store
Ph:510-526-0271
1027 San Pablo Ave
Albany CA 94706
Ph:510-526-0271
Fax 510-526-0273



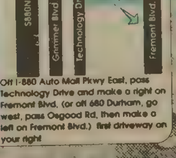
Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U C Village Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Avenue.

Belmont Store
Ph:415-592-3333
1501 El Camino Rl #E
Belmont CA 94002



From north, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make an U-turn. From south, exit Holly St, right on El Camino Real, 3 minutes down the block.

Fremont Store
Ph:510-226-6746
44063 Fremont Blvd
Fremont CA 94538



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd. (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right

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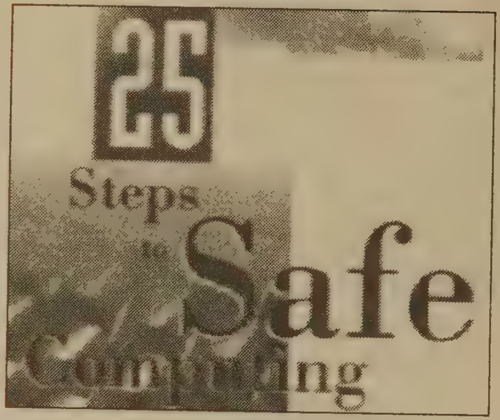
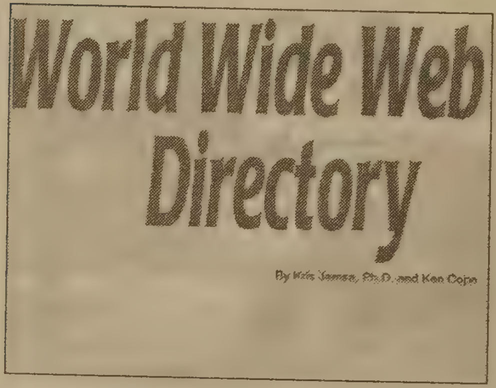


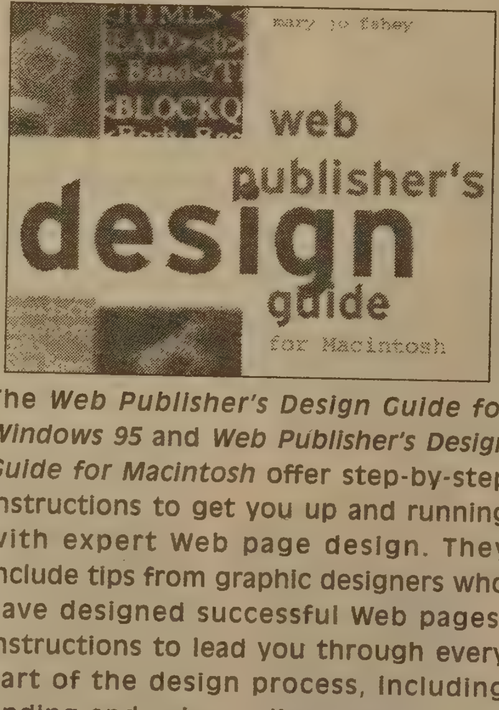
tains that armed with the proper tools—the information presented in his book and a positive attitude—readers can make their desktop environments much safer places. This book actually contains more than twenty-five steps, because each step (relieving eyestrain, adjusting monitors, getting a good chair, staying fit, for example) includes plenty of advice and tips. Each section generally includes a bulleted list of symptoms, another list detailing repercussions from not dealing with the situation properly, followed by practical, workable suggestions on how to overcome and prevent problems. There is also a resource list at the end of each step, plus a resource section at the back of the book for further information. ($5.95) Peachpit Press, 2414 Sixth St., 94710. 1-800-283-4393.

World Wide Web Directory



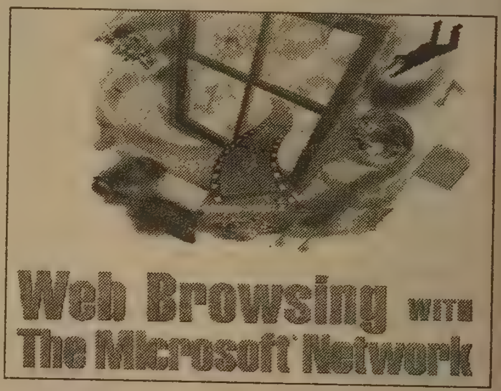
The *World Wide Web Directory* book and CD-ROM provides a graphical preview of Web home pages and lets you easily find Web sites on any topic of interest. The book displays four thousand of the best and most graphical home pages with keywords and site addresses for four thousand additional Web sites. It offers nearly one hundred categories to browse through. The CD shows over eight thousand home pages as they appear on the Web. It lets you search by keywords or topic to locate the sites with the information you need. For readers developing their own home page, they can easily view the HTML programming code used at any of the sites included on the CD. Also included is the software and special offers to try the Web for free from different systems. ($39.35) Jamsa Press, Inc., 7340 Smoke Ranch Rd., Suite C, Las Vegas, NV 89128. (702)248-6111, 1-800-432-4112.

Web Publisher's Design Guides



The *Web Publisher's Design Guide for Windows 95* and *Web Publisher's Design Guide for Macintosh* offer step-by-step instructions to get you up and running with expert Web page design. They include tips from graphic designers who have designed successful Web pages; instructions to lead you through every part of the design process, including finding and using online design tools; detailed directions on how to incorporate desktop publishing tools and techniques into Web page design; and advice on banners, hotspots, beveled edges, silhouettes, drop shadows, tiled backgrounds, text wrapping, and more. The accompanying CD-ROM is filled with design tools, including SoundEffects sound editor, Movie Player, software that turns your computer into a phone, music clips, and Web page templates ($34.99) The Coriolis Group, 7339 W Acoma, Suite 7, Scottsdale, AZ 85260 (602)483-0192.

Web Browsing With The Microsoft Network



Web Browsing With the Microsoft Network, by Jeff Bankston, illustrates the many features of the new, graphically enhanced Web browser exclusively available with Windows 95. Users will become acquainted with the options this new Internet service has to offer and the terminology commonly used with the Microsoft Network (MSN). It lists hundreds of ways subscribers can fully utilize the MSN, including how to get the most out of Gopher, chats, newsgroups, and the online library; how to locate fascinating Web pages and mark that spot for quick and easy return; options for working at home; how to find fun places for kids to interact with others ; and how to do research for school. This book also explains the variety of features exclusive to the Microsoft Network. ($22.95) Prima Publishing, Inc., 3875 Atherton Rd., Rocklin, CA 95765-3716. (916)632-4400.

MYST: The Book Of Atrus

MYST: The Book of Atrus is the first in a trilogy by the game's own creators, Rand and Robyn Miller, with David Wingrove. A prequel to the story related in the adventure game, it explains how the mysterious world in the game came to be. In this book, we learn of Atrus' strange mentor

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486DX4-100 ....$599
486DX4-120 ....$649

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- **8MB High Speed RAM**
- **635MB** Fast Enhanced IDE Hard Drive
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- VGA Card **w/1MB VRAM** S3 Chip
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- **TOSHIBA 4X CD-ROM Drive**
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486DX4-100 ....$1249
486DX4-120.........$1299

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- **8MB High Speed Page Mode RAM,** 70ns, exp. to 128MB, 72Pin
- **850MB** Fast Enhanced IDE Hard Drive w/Built-in CD-ROM Support
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PENTIUM® 100 ....$1499
PENTIUM® 120 ....$1599
PENTIUM® 133 ....$1799

PENTIUM MULTIMEDIA SYSTEM

- **New Intel® Triton Chipset**
- **ZIF Socket** (Zero Insertion Force)
- **256K SRAM Write Back Cache** Upgradable to 512K
- ***New*** 3 Hi-Speed PCI Local Bus with 4 ISA AT Bus Slots
- **Flash BIOS, Memory Writer** for BIOS Update
- **Dual Fans & PS**
- **8MB High Speed Page Mode RAM,** 70ns, exp. to 128MB, 72Pin
- **1.0GB** Fast Enhanced IDE Hard Drive w/Built-in CD-ROM Support
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- **64-Bit Diamond Stealth** PCI Local Bus SVGA Card w/1MB, exp. to 2MB
- **15" *Award Winning* MAG SVGA Monitor** Full Screen Non-Interlaced Flat
- **TOSHIBA 4X Speed CD-ROM** Drive
- SoundBlaster 16 Comp, w/Yamaha Synthesizer
- Magnetically Shielded Speakers
- Two Hi-Speed Serial ports, 1 enhanced multimode port, Bi-directional with EPP and ECP Support, 1 Game Port
- **Deluxe Mid-Tower Case**
- 101 Key Enhanced Keyboard

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- ***New*** 3 Hi-Speed PCI Local Bus with 4 ISA AT Bus Slots
- **Flash BIOS, Memory Writer** for BIOS Update
- **Dual Fans & PS**
- **16MB High Speed Page Mode RAM,** 70ns, exp. to 128MB, 72Pin
- **1.0GB** Fast Enhanced IDE Hard Drive w/Built-in CD-ROM Support
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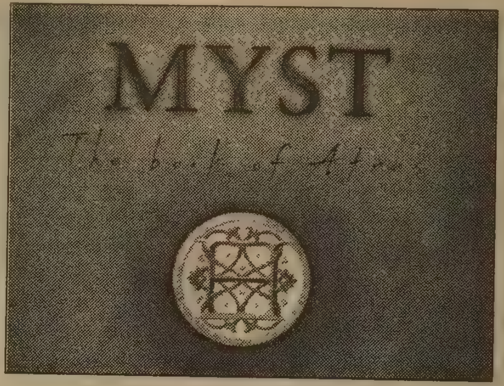
relationship with his father Gehn, and "The Art"—their godlike ability to create the worlds they write of in books. Unlike hi father, Atrus feels responsible for the people



who inhabit the worlds they create. One woman in particular, Catherine, ultimately helps him save a world that his father has doomed to extinction, while at the same time planning with him for the ultimate hiding place from Gehn: the island of Myst. ($22.95) Hyperion, 114 Fifth Ave., New York, NY 10011. (212)633-4400.

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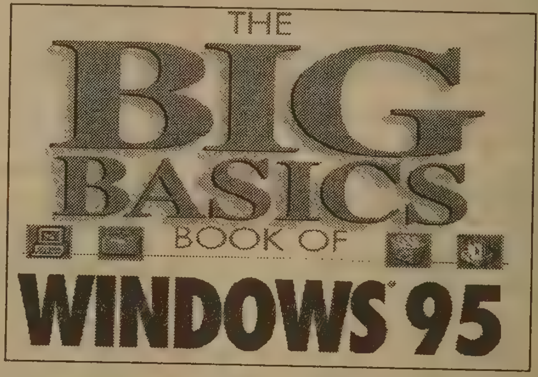

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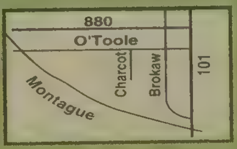

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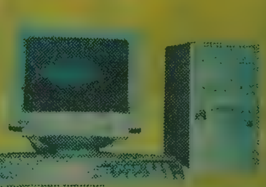

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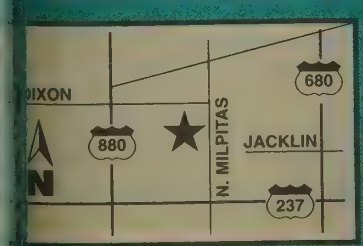

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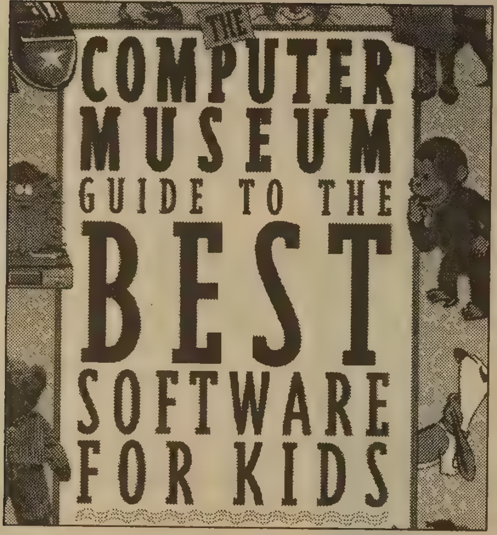
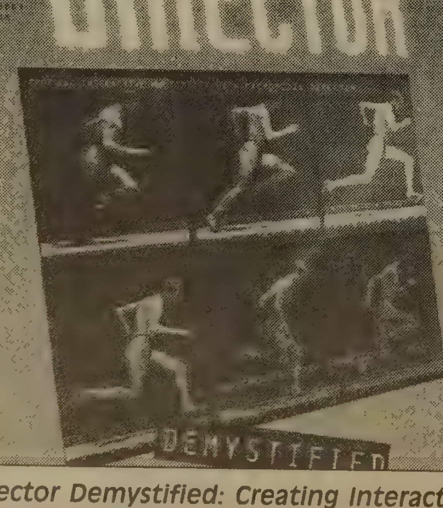


Out of hundreds of programs, the *Computer Museum Guide* selected 215 that represent the best in design and graphics, the best in replay value, and the best in hands-on learning for kids. Combining the insights of experts at the country's only computer museum with the real-life perspective of test families, the *Computer Museum Guide* features easy-to-use lists of recommended titles, helpful ratings, and plain-talking reviews. It organizes the best titles by subject and age to make it easy for parents to pinpoint software that's right for their kids. ($16) HarperPerennial, 10 East 53rd St., New York, NY 10022-5299. (212)207-7174.

Director Demystified



Director Demystified: Creating Interactive Multimedia with Macromedia Director, by Jason Roberts, is a new book/CD-ROM package. The text offers examples and hands-on exercises progressing from beginning topics, such as basic animation and simple interactivity, to the advanced, including authoring for CD-ROMs and cross-platform compatibility. The principles and concepts are also brought into a real-world context with a series of Project Profiles, which dissect and discuss professional-level multimedia productions. The CD-ROM is loaded with interactive examples and hundreds of megabytes of royalty-free multimedia material. ($39.95) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444, (510)548-4393.

Macromedia Director Lingo Workshop

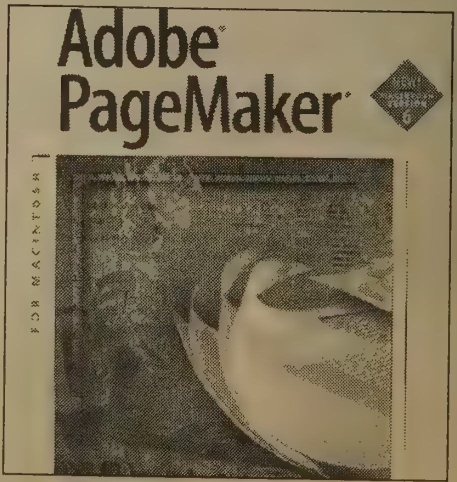
Macromedia Director Lingo Workshop offers a complete guide to Lingo, the programming language of this popular authoring multimedia program. It is written for non-programmers, although readers with programming experience will also benefit. The tutorial begins with basic information then builds in complexity. Using a lesson format, multimedia examples, projects, and even quizzes, the book presents readers with practical design tools and tips. The accompanying CD features a demo version of Macromedia Director, examples of Lingo scripts, and more two hundred fifty example movies that illustrate concepts presented in the book. ($40) Hayden Books, 201 W. 103rd St., Indianapolis, IN 46290. 1-800-428-5331.

Kai's Power Tools Filters And Effects

Designer and author Heinz Schuller explores using the Kai's Power Tools filters and effects with plug-in compliant software such as Adobe Photoshop, CorelDRAW, Picture Publisher, Fractal Design Painter, and Altamira Composer. This easy-to-use guide helps intermediate-to advanced-level users learn how to effectively manipulate scanned or computer-generated grayscale or color images. The book is divided into five sections covering plug-in architecture, filters, Gradient Designer, Fractal Explorer, and Texture Explorer. It also includes thirty-two pages of four-color images illustrating the various effects. The book is accompanies by two CD-ROMs with images showing the special effects described in the book. The CD also includes five filters from HSC, the makers of Kai's Power Tools, including exercie images, arbitary color maps, finished artwork, and animated KTP camples. ($45) New Riders, 201 W. 103rd., St., Indianapolis, IN 46290-1097. (317)581-3500, 1-800-428-5331.

Classroom In A Book: Adobe PageMaker 6 For Macintosh

Classroom In A Book: Adobe PageMaker 6 For Macintosh is a hands-on software training workbook that provides materials that have been tested and refined in classrooms and labs. It covers ten lessons that allow you to maximize the power, extensibility, and sophistication of one of the world's leading publishing programs, using the tools and features of Adobe PageMaker with the specially created files on the included CD. Topics covered include using the tool and control palettes; importing text and graphics; cropping, sizing, and linking graphics; applying special type effects; working with groups and layers; defining colors and tints; creating and editing styles; assembling multiple master pages; building custom libraries; creating custom templates; converting files to PDF formats; and preparing files for final output. ($45) Adobe Press, 1585 Charleston Rd., Mountain View, CA 94039-7900. (415)962-2028.



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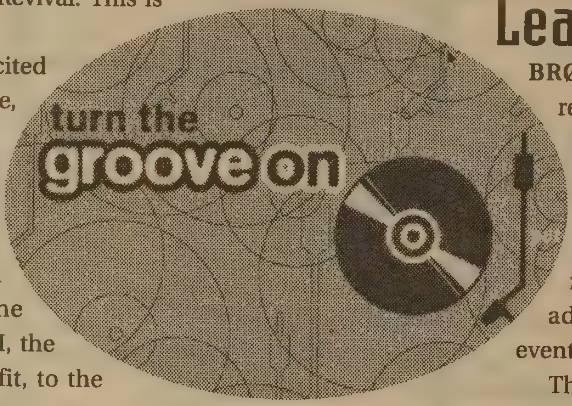
☛ GULCH GOSSIP

"Music" continued from page 237

Haunted by Waters, but if you like one, you'll almost certainly like the other.

Candice Pacheco returns with *If Then...Else* on the **Hearts of Space** subsidiary, **RGB Records**. Almost needless to say, Candice's music is more electronic than either Haunted's or the Beasts', but she also includes plenty of acoustic sounds, particularly Middle Eastern percussion. All three are great examples of what's going on musically and cross-culturally in the Bay Area once you venture beyond the mainstream or the self-important and self-defining club underground.

Amy X Neuburg & Men don't include the multiple ethnic influences of these other musicians, although they do use marimbas, but, like them, they do have their cyber connections. *Utechma* is the new release on **Racer Records.** The sound is harsher than the others but not unduly so; I mean, it doesn't hurt the ears like a lot of what passes for music, but it's more of a challenging listen than the smoother sounds of the Archaic Revival. This is contemporary, alienated, quirky.



Lastly, Gulch Gossip is also very excited by the first domestic **Zion Train** release, *Homegrown Fantasy*, on **Mesa**. The only local connection that I can dredge up is that Zion Train and San Francisco's **Dub Tribe** once collaborated on an EP—but they're mostly in this column because upcoming is the release of a double pack CD/CD-ROM, the first CD-ROM from a dub reggae outfit, to the best of Gulch Gossip's knowledge.

Zion Train have a serious, heavy-duty, dub sound system bottom, but they add in techno, trance, and ambient elements. A lot of *Homegrown Fantasy* also has a fairly up-tempo ska sound as well. Anyway, you can get the CD for your friends who like that kind of thing now; the double pack will be out soon, and the CD-ROM will be available separately in January.

TWISTED TOTALLY?

Later the same evening of the Living Books party, Gulch Gossip caught the tail-end of **Berkeley Systems**' party for the **Totally Twisted** screen saver. Yup, by that time the party was pretty twisted.

Gulch Gossip has heard some amusing stories about the production of Totally Twisted. In essence, the worker bees—sorry, I mean the artists—would come up with something pretty gruesome. Then management would say it was too twisted, so the artists would tone it down a bit, only for marketing to say something along the lines of, "Well, if we're going to call it 'Totally Twisted,' it has to be more twisted than this." So the whole merry-go-round would start again.

Frankly, this design by committee shows—and while Totally Twisted does its screen-saver duty, it doesn't have quite the edge that truly perverse types find twisted. Maybe it's just got too much of that contemporary ironic distance that Generation Z seems to find so hip. For content, I prefer Berkeley Systems' other screen savers, the classic After Dark and the innocently amusing Looney Tunes.

Learn The Art Of Magic

BRØDERBUND AND **FIVE STAR ENTERTAINMENT** THREW A really fun party at the **Transmission Theater** for the release of *Learn the Art of Magic With Jay Alexander.*

Jay mystified the crowd with a few tricks and presented a number of other magicians and performers doing a variety of things that Gulch Gossip can't do or doesn't want to, like hammering nails up one's nose. Actually, there was a surprisingly adult tone to a number of the performers for a Brøderbund event—but the audience loved it.

The CD-ROM claims to be for "Ages 8 to 12," but really, anyone who wants to learn some magic tricks should like it. Jay shows the trick in one video clip, and you can then check out how he does it in another. There's surprisingly high entertainment value 'cos Jay has great presence—and then Five Star went wild with the video and sound effects on top of that.

The box (there's one of them boxes again!) includes five pieces of special equipment needed for certain tricks, and the other tricks on the CD-ROM use easy-to-find things like rope, cards, coins, and dollar bills—well, maybe the last aren't so easy to find. There are also profiles of famous magicians of the past and a slang glossary along with posters you can print out for your own shows.

This is a CD-ROM that really works, partially because Jay is an accomplished performer but mostly because he brings a real passion to what he's doing. One of the things I really like about it is when he talks about what a shy little kid he was and how learning and doing magic made him much more self-confident. Another thing I really liked was that the credits are not some boring old piece of text but have video clips of all the folks who worked on the project—that's real personal multimedia! This should become the way it's always done.

More Gossip ☛

AND NOW FOR SOMETHING COMPLETELY TWISTED

So **7th Level** isn't local and it's never invited Gulch Gossip to a party—but KQED doesn't seem to be showing *Monty Python's Flying Circus* much any more, so Mac owners wanting something twisted will be delighted to get the new Mac version of *Monty Python's Complete Waste of Time.* Even this Mac slut considered getting a Windows machine last year just for this title when it was Windows only! It was worth the wait.

Complete Waste of Time captures **Monty Python**'s truly twisted take on the absurdities of life with a variety of utterly idiotic games in extremely bad taste—flying pigs who kill you by defecating on you for example, a demented pinball game in a church, screen savers (including interactive ones that you can play with using your mouse), system sounds, desktop pictures, as well as a collection of old skits (which, incidentally, show the importance of shooting original video with high standards—it's some of the best-quality video seen yet on the desktop), and an extremely vicious parody of a standard boring CD-ROM interface.

Easily among the best entertainment available on a CD-ROM if it's your cuppa tea. And, if it isn't, I suggest you steer well clear of this title and try "something completely different," not to coin a phrase. Now, maybe 7th Level will invite Gulch Gossip to a party!

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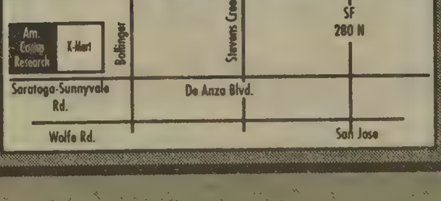

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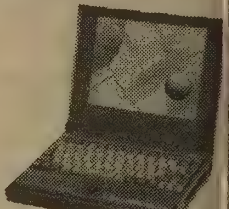

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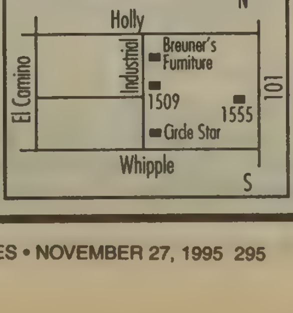

GULCH GOSSIP *continued...*

Yerba Buena Gardens Studio

So you don't have any real friends to give gifts to, or at least none that deserve anything, or maybe they just already have everything they could possibly want or need—but you still want to give? **Devorah Canter**, legendary creator of the original MacroMind developer program, has a good suggestion.

She's now on the board of directors of the **Yerba Buena Gardens Studio for Technology & the Arts**, a project to eventually be built atop part of the Moscone Center but already in operation at 1 Federal Street. Its stated mission is to provide "a place for youth to engage in a global dialogue through arts programming and technology." Devorah adds that it is "particularly for children at risk."

Successful projects so far have included the **Art Fax** project between Oklahoma City and San Francisco, animation workshops in the Tenderloin, and a **Think Tank for Teens** that allows them to put their art up on the Internet and communicate via videoconferencing with others around the world. Future plans include a teen-produced audio walking tour of South of Market, an underwater filmmaking workshop for homeless youth, and teen-designed and -produced 3-D flythroughs of architectural models, as well as a Web site to teach kids how to do their own projects at home.

Of course, all this requires money and volunteer time from people with skills to teach. So that's where you can come in with gifts of money, hardware, software, or time. Email the Studio at *ybgstudio@aol.com* or call (415)442-0145 to let them know what you can do or provide.

Fresh From The Macromedia International User Conference

Gulch Gossip is impressed by Macromedia's **Shockwave** for Director, with its Afterburner compressor. In short, and definitely not a com-

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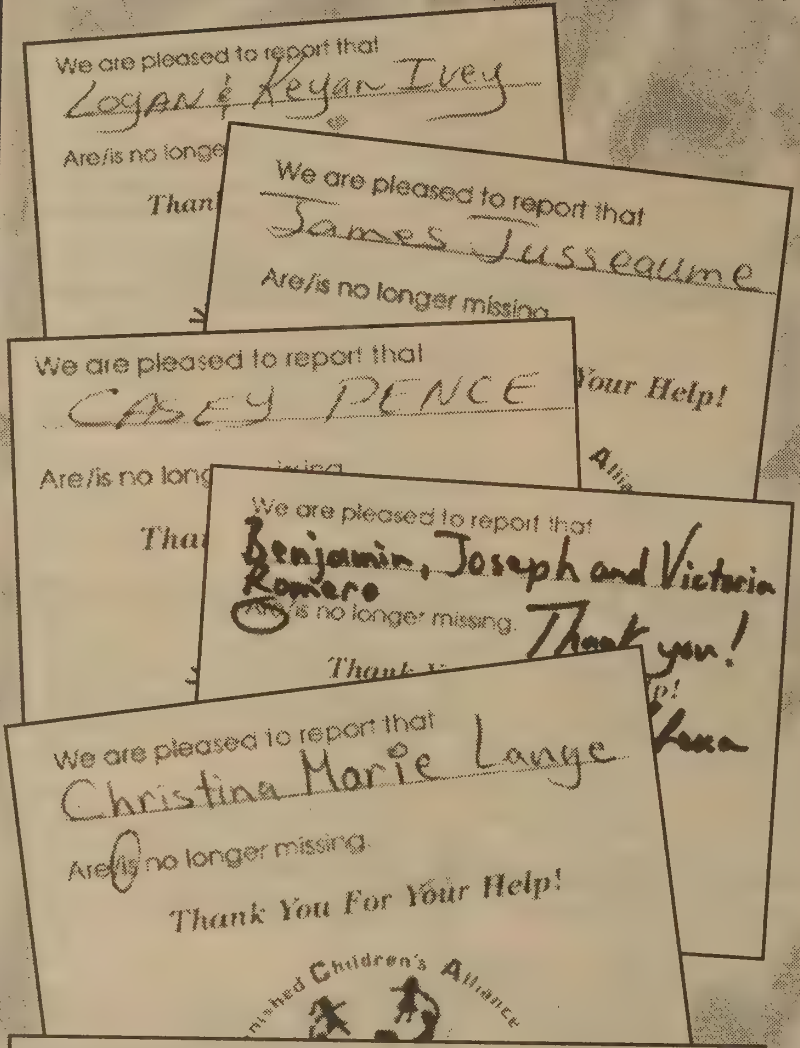
VANISHED CHILDREN'S ALLIANCE UPDATE

PUBLIC AWARENESS WORKS.



We are pleased to report that
Logan & Keyan Ivey
Are/is no longe
Than

We are pleased to report that
James Tusseaume
Are/is no longer missing
Your Help!

We are pleased to report that
CASEY PENCE
Are/is no long
Tha

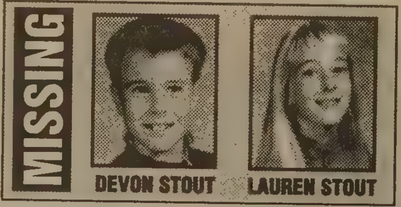
We are pleased to report that
Benjamin, Joseph and Victoria Romero
Are is no longer missing. Thank you!
Thank

We are pleased to report that
Christina Marie Lange
Are/is no longer missing.
Thank You For Your Help!
nished Children's Alliance

Dear MicroTimes Magazine:

I want to take this opportunity to say thank you for donating ad space in your publication for the placement of my son Devon's ad. After the frustration of dealing with courts and law enforcement who do not seem to be very concerned about "family" abductions, it is quite encouraging to find some people who truly do care...

Sincerely
Gregory Stout



DEVON STOUT LAUREN STOUT

PLEASE CALL IF YOU HAVE SEEN DEVON AND LAUREN STOUT (pictured above). THANK YOU.

CALL 1-800-VANISHED FOR SIGHTINGS
OUR CHILDREN, OUR FUTURE

GULCH GOSSIP *continued...*

GULCH GOSSIP IS ALSO AMUSED TO NOTE THAT THE TROUBLE SHOOTING GUIDES FOR WINDOWS AND WINDOWS 95 ARE SIXTEEN TIMES AS LONG AS THE TROUBLE SHOOTING GUIDE FOR MACINTOSH.

plete account, Afterburner compresses Director movies down to, at most, 60% of their original size and often less.

The Shockwave player is an extension to Netscape Navigator 2.0 and will be available later for other browsers. So, multimedia creators will be able to put their Director movies on a Web site, and consumers will be able to download and play them relatively easily and quickly. It's amazing how much can be done with fairly small compressed Director movies, movies that aren't much bigger than many of today's graphics.

Check out the animations on **Marc Canter's MediaBand web site,** *http://www. mediaband.com*, for an idea of what's possible.

Gulch Gossip thinks that this opens the door at least a crack for a genuine new form of cultural expression akin to the fabled age of seven-inch pop singles. All sorts of artistic types, but especially teenagers, can make their interactive art pieces and distribute them through the Web with relatively low overhead.

Sure, it would be nice if Director was a little less expensive, but, compared to other authoring programs, it's by no means outrageous. In fact, it's cheaper than many. Besides that, it's not considerably more than a basic guitar and amp or drum kit costs. Garage-band multimedia may yet see the light of day—and, when that happens, what are all those high-priced consultants and marketing geeks going to do?

Gulch Gossip has recently spent a lot of time with Director and is somewhat mystified by its reputation for difficulty. Yes, it's complex. We're trying to do complex things, aren't we? But it's not difficult. Gulch Gossip also wants to note that he was helped considerably by the book/CD-ROM package, *Director Demystified*, by **Jason Roberts** from **Peachpit Press**. It's highly recommended and would make a great gift for anyone beginning to work with Director. Of course, for the truly deluxe gift, get 'em Director as well! ■

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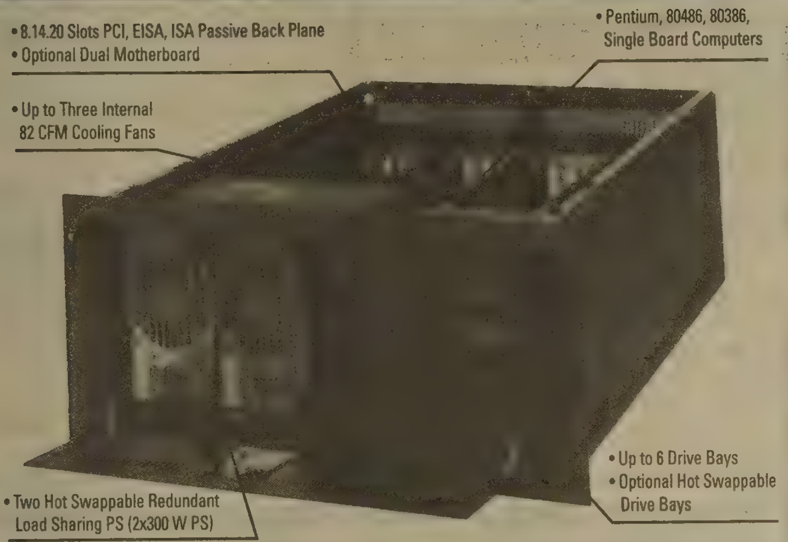

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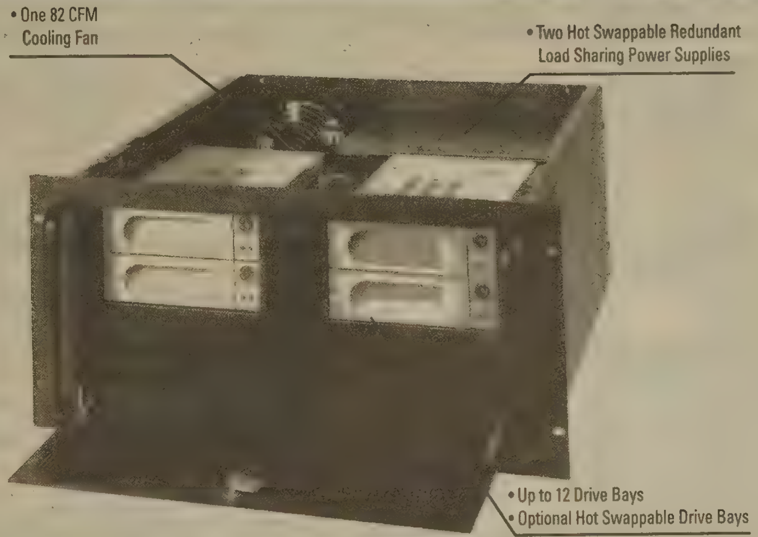

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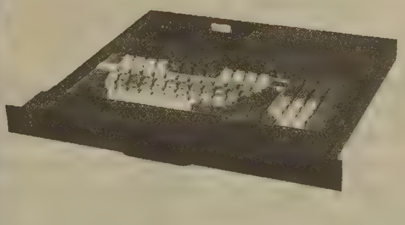

- Full travel drawer mounted 101 keyboard with mouse holder & 22" rail
- Heavy duty steel construction
- IBM PC AT fully compatible

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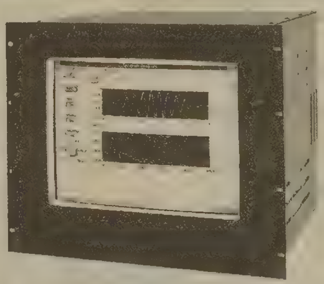

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- Mediavision *Reno* Kit
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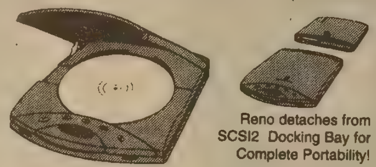
  - ☞ Double-speed 180mS drive is lightning fast!
  - ☞ Drive detaches from docking bay, use with your headphones as a portable personal audio CD player
  - ☞ Great for Mac or IBM (with adapter bracket)
  - ☞ Brand new in box, 90-day warranty

Mediavision *Reno* Kit HSC# 15586 $79.95


Reno detaches from SCSI2 Docking Bay for Complete Portability!

- **Mediavision *Reno* Accessory Package Deal $10.00 (only sold with Reno) consists of the following:**

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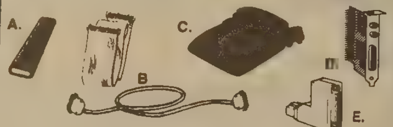
B. Reno Cable Kit (SCSI2 - DB25 cable, 50p. ribbon cable, internal & external audio patch cables) **HSC#15589**
C. Padded Travel Pouch **HSC#15588**



- ***Reno* Accessories Available Separately:**

D. Internal SCSI IDS50 to DB25 Adapter bracket for IBM, use with Reno cable kit (above) & your SCSI card for convenient SCSI and audio connections. **HSC#15590 $6.95**
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- Mediavision Pro Audio Spectrum SCSI Sound Card
- 8-bit Sound Card with SCSI Port, great for controlling internal CD/ROM's (see CD/ROM Specials at left, below)
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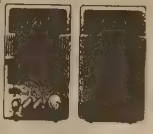
- New in OEM packaging (envelope, no box)
- 90-day warranty
- Use with CS-550 speakers below for great sound combo!

Mediavision Sound Card HSC# 15585 $19.95

Multimedia Speakers

- Two styles to choose from, both new in box
- White plastic enclosures, grey grilles
- Econo-import model MSS-1000 has:
  - ☞ Volume control, Bass boost switch
  - ☞ Uses 3 C-cells per side, measures 3.5" x 3.5" x 5"
- CS-550 by Labtec (pictured below) has:
  - ☞ Volume control, Bass boost switch, Treble-boost switch, measures 4" x 4" x 6"
  - ☞ CS-550 has 40 - 16000 Hz freq. response, 3" speakers, and power light.
  - ☞ 4 watt amplifiers (uses 2 C-cells per side)
- Both feature magnetically shielded enclosures, "enhanced bass-response cabinet design", and attractive beige styling.



MSS-1000 HSC# 15127 Pair/ $6.95

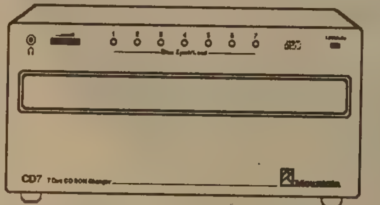
CS-550 HSC# 15517 Pair/ $9.95

Dealer Inquiries Invited...

Quantity Discounts Available!

Seven Disk CD-ROM Changer

- Mountain Network Solutions CD7 Changer
  - ☞ Seven-disk CD-ROM Changer holds over 3.5 Gigabytes of storage! SCSI-1 and SCSI-2 selectable interface, headphone jack on front panel, line-level audio outputs at rear.
  - ☞ Brand new in OEM box, selectable 110/220 VAC input, 90-day warranty, measures 7.75" x 4" x 12.75".
  - ☞ Windows and DOS driver disks, manual included. Works in IBM DOS/Windows environment with Adaptec, Trantor & Future Domain SCSI Controllers with supporting ASPI Drivers (not included). Will work on Mac with special driver available from Ocean Systems (not us, ask for info).
  - ☞ Access time avg. 300 KBps (sustained double speed), 1500 KBps (burst)
  - ☞ Occupies one SCSI address, appears as seven logical drives to system. Perfect for BBS or Website!



CD7 CD-ROM Changer HSC# 15641 $199.95

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- New-in-box 66 MHz PCI Pentium Motherboard
- Four PCI Slots, Four 16-bit ISA Slots, uses 72-pin SIMM's
- ZIF Socket allows easy CPU insertion (see below)
- 256K Cache RAM installed, supports up to 1MB Cache
- CPU clock rates from 30 to 66 MHZ supported
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- User's Manual included, ninety-day warranty on board

HSC# 15661 $79.95

Pentium Deal #2

- New 60/66 MHz VLB Pentium Motherboard (no CPU)
- Two VLB Slots, Four 16-bit ISA Slots, uses 72-pin SIMM's
- Supports up to 512K Cache (None installed)
- Clock Rates to 66MHZ supported (60MHz installed)
- OEM Pack (no book or box), 90-day warranty
- Very Limited Quantities!

HSC# 98092 *VLB Pentium Motherboard* **$49.00**
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Network Card Bargain!

- Racal Interlan 16-Bit Ethernet Cards
- High Quality US Product, 10-Base-T or AUI
- Manual, Software included
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- Handy 5-pack contains 5 cards, 1 Manual and 2-disk software pack)

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- Rodime RO3259T SCSI Interface Hard Drive
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- New Kenwood AA NiCad Batteries
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HSC# 15281 $2.99 / pr.

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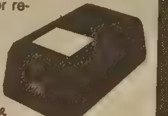

B) Standard 6' IEC power cord for use with above supplies, misc. colors & styles, used. **HSC# 80119 $.99**

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- Sanyo, Sony are tray-type (no caddy needed)

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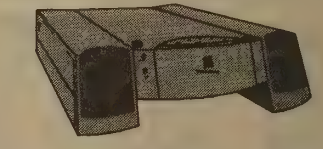
Sanyo CDR-H93MV 2X-Drive HSC#15584	**$59.00**
NEC CDR-510 3X-Drive HSC# 15327	**$99.00**

Multimedia Kit Deal #2

- Mediavision ***Memphis*** Kit (Limited Quantities Available)
  - ☞ Consists of used, tested good SCSI double-speed drive, custom enclosure, and detachable Bose active speakers with 10W/Channel amplifiers.
  - ☞ Requires 12VDC 2.5A Adapter, not included. We may have some suitable adapters by press time, inquire about possible substitutes when ordering.
  - ☞ We don't have the interface cable, but you could make your own SCSI Cable to connect to your SCSI sound card (see above). Unit has a high-density 44-pin connector, or remove it and fabricate your own hookup.
  - ☞ Midi ports and audio jacks on back, NEC CDR210 CD/ROM Drive has tray, does not need caddies.
  - ☞ Awesome sound from Bose speakers!



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- TEAC 1.44 Floppy, Med Tower Case
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- 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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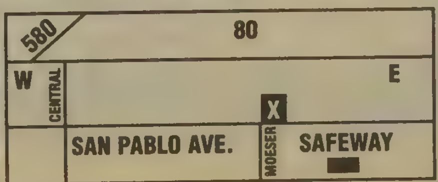

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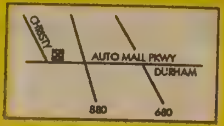

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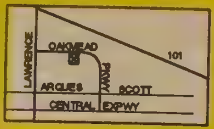

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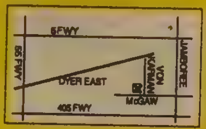

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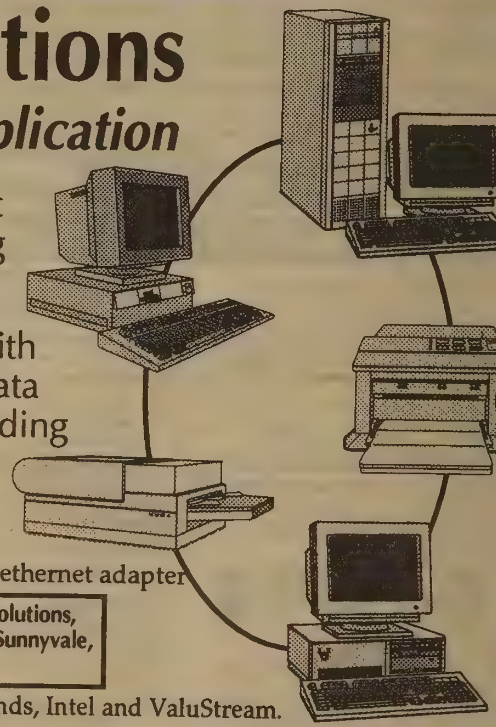

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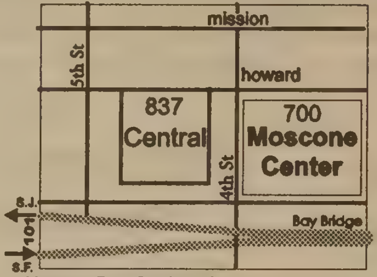

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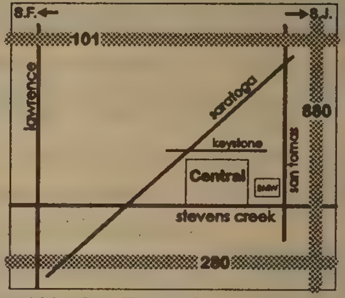

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TURTLE BEACH

Monte Carlo Game Card	95
Monterey Multisound / Tropez Sound Card	329/225

OTHERS

CD Carring Case (holds 40 CDs)	19.95
CD Caddy / CD Jewel Case	3.99/*(0.55)
CD Pop-Out Storage Case (holds 30 CDs)	19.99
Gravis Ultrasound Ace	*(99)
Gravis Max 32 Voice w. Doom II	*(175)
Media Vision : Jazz 16 SCSI Sound Card	*(59)
Wav Jammer 16 bit Stereo PCMCIA	275

MULTIMEDIA UPGRADE KIT :

Diamond 4000 4X Multimedia Kit w. 11 titles	299
Diamond 5000 4X Multimedia Kit w. 30 titles.	379
Diamond 7000 4X Multimedia Kit w. 22 titles	379
Panasonic 4X + SB16 + 40W Speakers	229
SB Digital School House 2X CD Kit w. 20 titles	*(239)
SB Discovery 16 2X CD Kit w. 18 titles	255
SB Discovery 4X CD Kit w. 20 titles (new)	345
SB Edutainment 2X CD 16 w. 42 titles	365
SB Multimedia Home 4X Kit w. 24 Microsoft CDs.	399
SB Multimedia Office 2X Kit	*(479)
Sony 2X + Jazz 16 SCSI + Labtec Speakers	169
Sony 4X + 16 IDE Sound Card + Labtec Speakers	229

Rewritable CD Drives :

HP Sure Store CD Writer C4324A, read 4X, write 2X.	*(999)
Kodak PCD-Writer 225 Ext	1895
- Writable CD (74 min.)	8.95
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1875/2050/4165
Philip CDD-522 2X Int (w. software)	2145
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2350/2575

Speakers :

Active 75 (80W) / Active SP-690	49/35
Altec ACS52 / ACS53	99/129
Altec ACS150 / ACS300.1	105/215
EP-68 (70W) / EP-88 (80W)	35/42
EP-120 (120W) / EP-280 (40W)	59/29
JAZZ J-306 5W RMS per channel	39
JAZZ J-590 14W RMS per channel	75
JAZZ J-688 14W RMS per channel	99
JAZZ J-902S 18W RMS per channel	119
Labtec CS150 / CS180	*(14.95)/18.95
Mini Speakers (4W)	*(4.99)
PC-60 Multimedia (4W)	7.50
QIC-8803 Amplied Speakers (100W)	45
Yamaha YST-M5 / YSTM-10 (10W)	28/*(59.95)
- YST: 25W / 31W / 45W	155/185/215

2. CASE

Baby AT w. 200W / Baby Tower w. 200W.	55/49
Mid Tower w. 230W Power	69
Mid Tower w. Side Door Open, 230W Power	75
Mid Tower w. 250W Power : Black / White	139/129
Full Tower w. 250W Power : 1 Fan / 2 Fans	79/95
Full Tower w. 300W Power : Black / White	199/189
Slim w. 230W Power (2 drive bay)	75

HDD External Casing :

2 half ht or 1 full ht for PC, 60W, w/o cable	89
3 half ht or 1 full ht & 1 half ht, 60W, w/o cable	105
4 half ht or 2 full ht, 200W, w. cable	129
7 half ht or 3 full ht & 1 half ht, 250W, w. cable	239

ANTEC

CD Rom or 5.25" External Casing	65
3.5" HD External Casing	59
KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CP SCSI Board, 10Mb/s / w. Kit.	175/239
2742AT SCSI EISA w. Kit	365
2842AK SCSI VLB w. Kit	239
2940 SCSI PCI w. Kit oem / reg	239/279
2940W Wide-SCSI PCI Kit w. wide int cable	299
AHA3940 PCI Multi-Channel SCSI	399
APA1460 Slim PCMCIA SCSI	195
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	119
T358K EPP Parallel to SCSI Adapter	155

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	379
KT910A IDE Cache PCI w. Kit	169
KT946C SCSI PCI w. Kit (supports 8GB HD)	189

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35
3274 SCSI VLB 32 bit	75

FUTURE DOMAIN (SCSI)

TMC-1660 for AT (HD only)	119
TMC-1660 SVP (SCSI Value Pack)	127
TMC-1680 for AT (4FD & HD) / SVP	129/139
TMC-3260 PCI / SVP	129/165

KOUWELL

KW-554N 2IDE/ 2FD	19
KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP.	34
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	39
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59
EIDE MAX Enhanced IDE ISA only	32

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit / Fast SCSI VLB Kit	199/189
Fast SCSI PCMCIA	199
Fast SCSI PCI Kit / Wide-SCSI PCI Kit.	249/299

SIIG (5 yr. warranty)

SC-JE0012 EIDE 4HD 16 bit ISA	39
SC-JE4012 EIDE 4HD/ 2FD 16 bit ISA	59
SC-VKA4ZZ EIDE 4HD/ 2FD/ 2 Fast Serial/ high speed ECP/P / 1 Game VLB	89

VITEX

IDE w. 2FD/ 2S 1P/ 16550 chips	35
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	65
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	39

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	29
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	39

OTHERS

ACCULOGIC IDE PCI Controller	39
ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI w. 16550 chips	45

4. CPU & MATH CO

CPU :

AMD

386 DX-40	59
486-DX2-66 / DX2-80	69/79
486-DX4-100 / 120	109/119

INTEL

386 DX-33 / DX-40	39/39
486 DX-33	109
486 DX2-50 / DX2-66	135/115
486 DX4-100	125
586-60Mhz / 66MHz Pentium	199/219
586-75MHz / 586-90MHz Pentium	199/269
586-100MHz / 586-120MHz Pentium	309/389
586-133MHz Pentium	559

Math Co Processor :

ULSI

83D87 - 33	35

OTHERS

Cooling Fan for 486 CPU	6.95
Cooling Fan for 586 Pentium CPU	9.95

5. DIGITIZER

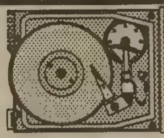
SUMMASKETCH

III 12 x 12, 4 or 16 button	*(249)
III 12 x 18, 4 or 16 button	*(395)
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC / MAC	145/149
Art Pad II (WD2-0405S) w. Fractal Dabbler	169
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	435/439
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

6. DRIVE



FLOPPY DRIVES :

SONY

MPF-520 1.44MB 3.5" / w. frame	31/35

TEAC

1.2MB 5.25"	45
1.44MB 3.5" / w. frame / Black	35/39/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVES :

CONNER

CPS-541A 540MB 14ms 64k IDE 1" ht	169
CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1060S 1.08GB 10ms 256k SCSI-2	279
CFS-1275A 1.2GB 12ms 64k IDE 1" ht	279
CFP-2105S 2.1GB 8.5ms 256k Fast-SCSI-2	649

FUJITSU (2 yr. warranty)

M2684SAU 540MB 12ms 256k SCSI 1" ht	179
M1606SAU 1GB 9ms 512k SCSI	315

HP

3724S 1.2GB 9.5ms SCSI-2	329
3725S 2.14GB 8.9ms SCSI-2	719

KINGSTON

PCMCIA 260MB IDE	545

MAXTOR

MXT-7425A 425MB 14ms 32k IDE	149
MXT-7850A 850MB 12ms 32k IDE	195
MXT-71050A 1GB 12ms IDE	259
MXT-71626A 1.6GB 12ms 128k IDE	345

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	819
MC-3243 4GB 8.5ms 512k 3.5" ht	1225
MC-1991 9GB 12ms 5.25"	2065

NEW MEDIA

PCMCIA 105MB IDE / 170MB IDE.	419/449
PCMCIA 260MB IDE	589

QUANTUM

LT-540S 540MB 11ms 128k SCSI-2	185
FB-1080A 1GB 12ms 128k IDE	235
FB-1080S 1GB 12ms 128k SCSI-3	315
TR-840A 840MB 14ms 128k IDE	199
TR-840S 840MB 14ms 128k SCSI	245
Atlas XP-32150 2GB 8ms 1MB SCSI-2	*(815)
Grandprix XP-34301 4GB SCSI	995

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	275

SEAGATE (5 yr. warranty for 1GB+)

ST-31220A 1.08GB 12ms 256k IDE	249
ST-31230N 1.05GB 9ms 512k SCSI-2	389
ST-31230W 1.05GB Wide-SCSI	499
ST-32430N 2.14GB 9ms 512k Fast SCSI	769
ST-31430W 2.14GB 9ms 512k Wide-SCSI	849
ST-32550N 2.14GB 8ms 512k SCSI-2	895
ST-12550W 2.14GB Fast-Wide SCSI	995
ST-32550W 2.14GB Fast-wide SCSI	995
ST-15230N 4.3GB 9ms 512k SCSI	1015
ST-410800N 9.0GB 11.5ms 1M SCSI	2239

TOSHIBA

PCMCIA 262MB IDE	485

WESTERN DIGITAL (3 yr. warranty)

WD-6350 635MB 11ms 128k IDE	175
WD-2850 850MB 10ms 128k IDE	199
WD-31200 1.2GB 11ms 128k IDE	295
WD-31600 1.6GB 10ms 128k IDE	365

REMOVABLE DRIVES :

SYQUEST (Mitac)

105MB 3.5" w. cart., SCSI for Mac, Ext.	389
270MB 3.5" w. Kit, Int	435
270MB 3.5" Bare Drive, SCSI, Int oem	349
270MB 3.5" w. cart., printer port for PC, Ext.	479
105MB Cartridge / 270MB Cartridge	55/65
Syquest 270MB 3.5" w. cart., IDE w. Kit, Int	465

ZIP DRIVES :

IOMEGA

Zip Drive 100MB SCSI / Parallel	199/199
Zip Disk 100MB Single / 10-Pack	22.95/155

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	29/32

7. I/O CARD

KOUWELL

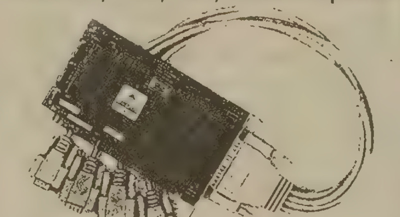
KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	37
KW508-1 Single Parallel Port	12

QUICKPATH

HIGH SPEED COMMUNICATION CARDS for Remote LAN Access

FLEXPORT 42 .... $99

- 4 16550 Serial Ports
- 2 Bi-Directional Parallel Ports
- Extended IRQ selection (3,4,5,7,9,10,11,12,14,15)
- 8 Selectable Address
- Extra Parallel Port Address Setting
- Windows, OS/2, Unix, Novell compatible



PORT-FOLIO 550E $125

- 13 Ports
- 4 16550 Serial Ports
- 4 Floppy Ports
- 2 Bi-Directional Parallel Ports
- 2 IDE Ports, 1 Game Port
- Extended IRQ Selection (3,4,5,7,9,10,11,12,14,15)
- Windows, OS/2, Unix, Novell compatible

Most Suitable for BBS Internet Users

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	39

8. KEYBOARD

FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard oem / reg	65/*(79.95)

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T / Ultra F.	*(75)/89

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39
Wintouch (for Win'95)	39
W104 (for Win'95)	29

*(price) .... *SPECIALS / on SALE*

(oem) .... $, bunddled with hardware only

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 101	*(29)
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill -resistant 101 Key	19.50
Unikey Natural Keyboard	42

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns (1MB)	39/38/37
4 x 9 - 60ns / 70ns (4MB)	155/149
16 x 9 - 70ns (16MB)	609
1 x 36 - 60ns / 70ns (4MB , 72 pin)	155/149
2 x 36 - 60ns / 70ns (8MB , 72 pin)	299/289
4 x 36 - 60ns / 70ns (16MB, 72 pin)	589/585
8 x 36 - 60ns (32MB, 72 pin)	1209
EDO 1 x 32 - 60ns	139
EDO 2 x 32 - 60ns	289
EDO 4 x 32 - 60ns / 70-ns	589/585
Simm Verter 30-pin to 72-pin converter	25

SIPP

1MB x 9 - 70ns (3 chips)	40

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

10. MODEM & FAX

SALE

BOCA

14.4 Fax Int / Ext	*(79/95)*
14.4 Online Express Int / Ext	65/79
14.4 Pocket Fax	169
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem	*(155)
28.8 Fax Modem v.34 Int / Ext	*(155/199)

GARNET (5 yr warranty)

28.8 v.34 Fax Int	135

GVC (Maxtech)

14.4 Fax Int / Ext	*(49)/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99
28.8 Fax Internal	149

HAYES

Accura 144 + Fax Int / Ext	*(87/105)*
Accura 28.8/14.4 v.34 Fax Modem Ext	209
ESP Communication : Single / Dual port	85/125
Optima 288 v.34 Fax Int / Ext	369/419
Optima 288 v.34 PCMCIA w. EZ jack	299

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	*(165)*
PCMCIA XJ2144 Fax (MNP10)	*(199)*
PCMCIA XJ2288 Fax	*(269)*

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 V.34 Ext	229

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	*(79/99)*
PC28.8 v.34 Fax, 230K DTE Int / Ext	269/285
PC28.8 v.34 Ext LCD	359
PM28.8 v.34 Int / Ext	*(179/195)*

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Courier v.34 28.8/14.4 Fax Int / Ext	395/425
Courier ISDN v.34 Int / Ext	435/469
Sportster 144/144 Fax MNP5 Int / Ext	89/105
Sportster 144/144 for Mac Ext	149
Sportster v.34 28.8/14.4 Fax Int / Ext	185/195
Sportster v.34 28.8/14.4 Fax for MAC	255
Sportster PCMCIA Fax v.34 28.8	*(289)335
Sportster Si 144 Fax Int	*(55)*
Sportster Vi 144 Fax w. Voice Mail Int / Ext.	115/129
Sportster Vi 288 Fax w. Voice Mail Int / Ext.	209/225
Sportster Vi 28.8 v.34 w. DSVD Int	275

XIRCOM

CM-28 28.8 Fax PCMCIA	299

ZOOM (7 yr. warranty)

144 Fax Modem & Voice Int / Ext	*(105/159)*
28.8 V.34 14.4 Fax Int / Ext	156/199

ZY-XEL

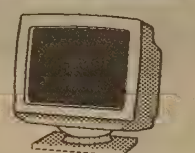
Elite 2864 28.8 Ext upgrade to ISDN	425
Omni 28.8 Ext Voice Serial / Parallel	314/315
U1496E 16.8 Voice 14.4 Fax, LED Ext	299

OTHERS

CommShare 550 Phone & Fax Auto-switch	75
CommShare 750 4 Port Switching	99
National Semiconductor TyIN 2000 Int	*(75)*
SIIG TeleCommunicator 10-in-1 Fax	219
14.4 Fax Modem Int	59

11. MONITOR

Demos
displayed
for
Selection



EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	105

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	379
CM1786M 17" 1280 x 1024 .28	669
CM2096 20" 1600 x 1200 .31	1265

IIYAMA

MF-8115 15" 1280 x 1024 .28	415
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	749
MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	845
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	1865
MT-9021E 21" 1600 x 1280, 76Hz, .30 NI	1765

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG

DX15G 15" 1280 x 1024 .28 NI (no LED)	375
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MXP17F 17" Flat 1600 x 1280 .26 NI	*(849)*

MAXVISION

HL-7864 Deluxe 17" 1280 x 1024 .28 NI	595

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI, Trinitron	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1029
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1955
F2.21 21" 1600 x 1280 .28	1879

NEC

XE15 15" 1024 x 768 .28	579
XV15 15" 1024 x 768 .28	465
XE17 17" 1024 x 768 .28 NI	1049
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	*(749)*
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99
XE21 21" 1280 x 1024 .28 NI	1799
XP21 21" 1600 x 1200 .28 NI	2159

NOKIA

449E 15" 1280 x 1024 .28 NI	*(455)499
447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	1945
445X 21" 1600 x 1280 .26 TCO	2055

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	*(249)*
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749*

PRINCETON

Ultra 15 15" 1280 x 1024 .28 NI	359
Ultra 17 17" 1280 x 1024 .28 NI	595
Ultra 17 Plus 17" 1600 x 1280 .28 NI	699

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	335
GM1563M 15" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	355
GM1764M 17" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	659

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	869
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1319

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	329
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	589
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	*(1099)*
SRC-2102L 1600 x 1280 Ni	*(1499)*

SONY

1425 14" 1024 x 768 .25	*(299)*
15SF 15" 1280 x 1024 .25 NI	489
17SF 17" 1280 x 1024 .25	*(859)*
20SE 20" 1280 x 1024 .30 NI	1885

TVS

9" 1024 x 768 VGA Mono	125

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	289
15ES 15" 1024 x 768 .28 NI, MacII	365
15G 15" Flat 1280 x 1024 .28 NI	429
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17GA 17" 1280 x 1024 .27 NI, plug & play	829
17GS 17" 1280 x 1024 .27 NI	759
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	899
20G 20" 1600 x 1280 .28 NI	1295
20PS 20" 1600 x 1280 .28 NI, MacII	1429
21PS 21" 1600 x 1280 .26 NI, MacII	1729

WYSE

WY-1450A 14" 1024 x 768 .28 NI	269
WY-15E 15" 1280 x 1024 .28 NI	409
WY-60 Terminal 14" : Amber/ Green/ White	335 each
WY-65 Terminal 14" : Amber/ Green/ White	359 each

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	159
486EI : 486-DX2-66 / DX4-100 256k, EISA, 3VLB	295

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	255
P55TP4XE 586-133 256k PCI, w. Burst SRAM	285
586-90 / 100 256k PCI EISA, dual processor	599

IBM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	155

INTEL (w/o cpu)

586-90 / 133 256k ZP PCI, Trition, built-in IDE I/O.	249
Endeavor 586-90/ 133MHz PCI, Triton, built-in IDE I/O w. Pipeline Burst SRAM & Vibra Sound	345

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	135
486-DX2-66 / DX4-100 256k 3VLB, 72-pin	145
486-DX4-100 256k PCI VLB, 72-pin	159

M-TECH

486-DX2-66 256k VESA, 30-pin & 72-pin	135
486-DX4-100 256k PCI, 30-pin & 72-pin	159
586-133 256k PCI, 30-pin & 72-pin	199

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	65
486-33 / DX2-66 256k VLB	169
JX3WB 486-DX2-66 256k VLB w. write-back cache	219
486-33 / DX2-66 256k EISA-3 / w. VLB.	285/299
M54PI 586-90 w. IDE I/O (Neptune)	305
M54Hi 586-100 256k, Triton, w. Burst SRAM	375
M54HI 586-133MHz 256k	315

SUPER (w/o cpu)

P54CT 586-90 / 133 256k PCI VLB	219
P54Ci 586-90 / 133 256k PCI, built-in IDE	219
P55CMS 586-90 / 180 PCI w. Burst SRAM 256k	295
- w. Burst SRAM 512k	365

TIGER V

586-90MHz 256k PCI	189

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial / First Trackball	31/49
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	65/125
Wingman Standard / Extreme	29.95/47

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mouse! Serial w. Pad.	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

MICROSOFT

Side Winder 1.0 / Side Winder 3D Pro	29/59

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	69
- w. US Navy Fighters	89
Flight Control System Pro	119
Formula T1 / w. Indy Car	125/139
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Color Mickey Pad / Flinstone Mouse Pad	5.99/7.99
Star Trek Mouse Pad / Star Wars Pad.	7.99/7.99
Walt Disney Mouse Pad	4.99
Winnie the Pooh Mouse Pad	5.49

14. NETWORK

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1795)*
3C509B Etherlink III Coax oem	*(79)*
- single reg / 5 Pack	*(109/466)*
3C509B Etherlink III TPO oem	*(69)*
- single reg / 5 Pack	*(105/415)*
3C509B Etherlink III TP+AUI oem	*(78)*
- single reg / 5 Pack	*(108/449)*
3C509B Etherlink III Combo oem.	94
- single reg / 5 Pack	119/525
3C579 Etherlink III EISA Coax / TP	218/219
3C589 PCMCIA TP / Combo	*(155/194)*
3C590 PCI TPO oem	115
- single reg / 5 Pack	135/545
3C590 PCI Combo	*(165)*
3C595-TX PCI 10/100 TP oem	159
- single reg / 5 Pack	199/725
3C597-TX EISA 10/100 TP	239
3C871 Impact ISDN Digital Modem	369
3C16170 Link Builder (12TP)	335
3C16180 Link Builder (9TP + BNC)	185
3C16670 Link Builder FMSII 12 Port	565
3C16671 Link Builder FMSII 24 Port	995
3C16640 Linkswitch 1200 6 Port, FDDI Link	4595
3C16900 Linkswitch 1000 24 Port 1 Fast	3195
3C22000 Linkswitch 2200 16 Port, FDDI	6395
3C30500 Linkswitch 500 Stackable 10 Port	2595

ADAPTEC

ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
ATM 155 Mb/s 512k PCI UTP	725

ADDTRON

HUB: UTP8/L (8TP +BNC + AUI)	*(125)*
HUB: UTP16/L (16TP + BNC + AUI)	249
Pocket Adapter BNC	*(99)*
Transceivers: AUI-BNC / AUI-TP	*(33/33)*

ALLIED TELESYN

MicroHub MR420T 4 Port (4TP + AUI)	129
MicroHub MR820TR 8 Port (8TP + AUI + BNC)	139
Transceivers: MX10 (AUI - BNC) / 210T (AUI - TP)	29/29
Workgroup Hub 3012T 12 Port (12TP + AUI)	239
Workgroup Hub 3012TR 12 Port (12TP+AUI+BNC)	279
Workgroup Hub 3016TR 16 Port (16TP+AUI+BNC)	335
Workgroup Hub 3024TR 24 Port (24TP+AUI+BNC)	469

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(499)*
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	235
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)*
Lantastic 6.0 for single / 5 / 10-user	79/329/599
- upgrade for single / 5 / 10-user	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(74/338/617)*
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)*
NR-SI 2000A Combo	*(89)*

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)*
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(265)*
Fast Ethernet 100BaseTX 12 Port HUB	*(1475)*
FriendlyNet with BNC / TP Adapter	59/55

ASCEND

ISDN Pipeline 25 Single / w. NT1	599/725
ISDN Pipeline 50 Single / w. NT1	735/875

BOCA

BEN110 ISA TP / BEN120 Combo	55/65
BEN210 8 Port HUB	125
BEN1VL VLB TP / BENPI PCI 32 bit Combo	69/*(79)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arc Serve NLM for Win	
- 5 / 10 / 25 / 50-user	249/475/825/995
Arc Serve for WinNT (NT-AS 10) / 2.0	*(495)/759

CNet (Advanced Network)

2000E+ Coax / 2000E+ TP	*(35/34)*
2000E+ Jumperless Combo	*(39)*
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)*
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(99)*
8816TPC HUB: (16TP + BNC)	*(225)*
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	109/*(99)

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

CENTRAL COMPUTER SYSTEMS, INC.
WIDE SELECTION AT LOW PRICES

SF STORE

TEL : 415 495-5888 FAX : 415 896-5888
837 Howard Street, San Francisco CA 94103

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Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
EM400 PCI Quarlet Fast (4UTP)	995
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo	*(119/129)
EM964TP 32 PCI 4-Port Full Duplex TP	469

DANPEX

ArcNet & Token Ring products	call
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo	*(79)
EN-500 5 Port Mini HUB (6TP)	89
EN-800A Slim 8 Port HUB	115
EN-1600 16 Port HUB	235
ER-400 4-port Repeater Coax	299
ET-510 UTP to AUI Translator	107
ET-590 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX 10/100	*(145)
FE-1400TX PCI 100BaseTX 10/100	*(149)
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

DIGIBOARD

Data Fire: Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	550
PC IMAC/4-1 : Multi ISDN Expension	695

HP

Advanced Stack 8 Port HUB 10BaseT	*(195)
Advanced Stack 12 Port HUB	599
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
J2550A Jet Direct TP	315
J2552A Jet Direct Combo	375
J2382B Jet DirectEX for HP5P	349
J2593A Jet DirectEX Plus 3 Combo	449

IBM

Ether 16 Coax / TP / Combo	69/69/79
ISDN Wave Runner ISA	495

INTEL

EtherExpress 32 Flash EISA Combo	219
EtherExpress PRO/100 PILA 8465 PCI TP	*(195)
EtherExpress PRO/100 for EISA	249
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	125
- PCLA 8200 5 pack	*(525)
- PCLA 8210 BNC + TP oem / reg	*(85/104)
- PCLA 8210 5 pack	*(449)
- PCLA 8220 TP oem / reg	*(74/99)
- PCLA 8220 5 pack	*(439)
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8205 5 pack	*(539)
- PCLA 8215 Flash BNC + TP / 5 pk	125/499
- PCLA 8225 Flash TP / 5 pk	119/469
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL / 3-pack	465/1295
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000RC16 bit BNC / 2000JT 16 bit TP	*(35/34)
2000RAL 16 bit Combo	*(39)
EP3020A Pocket Combo	109
EM5100 PCI Combo	79
HUB : 8 Port (8TP + BNC)	*(105)
HUB : 16 Port (17TP + 2BNC + 2AUI)	*(225)
Personal Netware Coax Starter Kit	125

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	355
XJ10BT PCMCIA Ethernet TP	*(149)
XJ10BC PCMCIA Ethernet Combo	*(175)

MICRODYNE

NE2000+ Coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	*(119)
Synchronous .35 WAN Adapter / .35+	450/869

MOTOROLA

BitSerfer ISDN Modem / TA 210	289/*(265)

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)
InfoMover NE2000+ TP / 5 pack	*(65/299)
InfoMover NE2000+ Combo / 5 pack	*79/*(399)*
InfoMover NE4100 PCMCIA Coax / TP	*(168/169)

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg.	45/55
Lan Workplace 5.0 single / 10-user	295/1295
Netware 3.12 (3.5" FD or CD)	
- 5 / 10 / 25-user oem	*(495/999/1395)
- 50 / 100 / 250-user oem	*1695/2295/3985*
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware 4.1 (CD only)	
- 5 / 10 / 25-user oem	*(445/899/1255)
- 50 / 100 / 250-user oem	*(1525/2065/3585)
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware Connect 2 Ports / 8 / 32	415/1445/3895
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(595)

SMC

8013 Plus Elite 16 Combo / 6 pack	135/775
Elite Ultra 32 EISA Combo	215
Ether EZ Coax / TP	*(109/99)
Ether EZ Combo oem / reg	*(79)/115
Etherpower PCI : TP / Combo	*(139/155)
Etherpower PCI 10/100	*(199)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 100TX 16 Port	2895
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

THOMAS CONRAD

TC5143T ISA TP / 6-pack	79/395
TC5048T PCI TP / 6-pack	145/635
TC5048T2 PCI Combo / 6-pack	175/785

XIRCOM

ISDN Basic Rate Adapter	*(359)
PCMCIA CE2-10BT TP	*(149)
PCMCIA CE2-10BC Combo	*(199)
PE3-10B2 Pocket Adapter Coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(279)
PS-CEM28-BT 28.8 Modem + Ethernet TP	425
PS-CEM28-BC 28.8 Modem + Ethernet Combo	495

CABLES & ACCESSORIES .... call

15. NOTEBOOK

NEC, TOSHIBA

.... call for current prices

SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2535
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	2995
SP918T Pentium 90MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3375

OTHERS

Smart Book IV-P Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz / 90Mhz	2285/2350
- w. Dual Scan Color 75Mhz / 90Mhz	1990/2075
- w. VLB Docking Station	425
Smart Book V-Pro w. CD Rom :	
- w. Active Color 100Mhz / 133Mhz	2940/3199
- w. Dual Scan Color 100Mhz / 133Mhz	2670/2745
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), VLB w. 1MB video ram, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1695
- 486-DX2-66, 340MB (TFT)	2155
- 486-DX4-100, 340MB (DSTN)	1725
- 486-DX4-100, 340MB (TFT)	2255

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	108
BK-400 Back-UPS (300W)	159
BK-450 Back-UPS (325W)	199
BK-600 Back-UPS (425W)	255
BK-900 Back-UPS (650W)	355
BP-280 Back-UPS Pro / PNP	149/*(165)
BP-420 Back-UPS Pro / PNP	209/239
BP-650 Back-UPS Pro / PNP	275/*(289)
SU-450 Smart-UPS (486, 586 WS)	285
SU-700 Smart-UPS (486, 586 FS)	349
SU-1000 Smart-UPS (486, 586, FS & WS)	485
SU-1400 Smart-UPS (multiple FS & WS)	639
SU-2200 Smart-UPS	1150
SUVS-420 Smart Value Server	239
SUVS-650 Smart Value Server	299
SUVS-1000 Smart Value Server	419
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

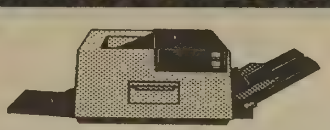
PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop / Full Tower	169/165
Turbo Cool 400	
- for Slim / Full Tower	*(199/199)
Turbo Cool 450 for Full Tower (3.3 volt)	325
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar / Isotel	call

17. PRINTER / PLOTTER



BROTHER

HL-630 Laser 6ppm	399
HL-645 6ppm, 1MB RAM	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200EX Bubble Jet, 360x720dpi	*(215)
BJC-600E Ink Jet, Color, Par. 720dpi	479
BJC-610 Ink Jet	549
BJC-4000 Ink Jet, Color, 360x720dpi	335
BJC-4100 Ink Jet, Color	375

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	199
GSX-240 Scalable Fonts & Quiet	265
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	249
Accessories :	
- Color Option for GSX-130 / GXS-145	45/65

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	285/46

EPSON

LQ-870	455
Stylus Color Inkjet 720dpi / Stylus II	539
Stylus II / Stylus IIS	429/329

HP (w. toner)

Color Laser Jet	5535
Desk Jet 600 / 660C / 850C	299/389/529
Desk Jet 1200C PC	*(895)
Desk Jet 1600C PC, Mac	1329
Desk Jet 1600C Postscript PC, Mac	1919
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5L	519
Laser Jet 5P / 5MP	*(849)/1049
Office Jet (printer-fax-copier) 3-in-1	699
Accessories :	
- Color Kit C3067A for 540 / C4533A for 600	45/47
- Duplex (C2061A) for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript (C2013A) for 4Si	575
Ink Cartridges :	
- Black (HP51626A) for 500, 540, 560	24.45
- Color (HP51625A) for 500C, 550C, 560C	28.95
- Black (HP51629A) for 600, 660	24.95
- Color (HP51649A) for 660C	29.25
- Black (HP51640A) for 1200C	24.95
- Cyan (HP51640C) for 1200C	29.95
- Magenta (HP51460M) for 1200C	29.95
- Yellow (HP51640Y) for 1200C	29.95
Toner Cartridges :	
- Toner (HP92295A) for II, IID, III, IIID	69
- Toner (HP92275A) for IIP, IIP+, IIIP	69
- Toner (HP92298A) for 4, 4M, 4+, 4M+	109
- Toner (HP92274A) for 4L, 4ML, 4P	65
- Toner (HP92291A) for IIISi, 4Si, 4SiMX	129

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)
Winjet 1200+ (postscript for HP4+)	*(599)

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	439
OL400E Laser	*(375)
OL410E Laser 4ppm, 600ppi	*(499)
OL410E/PS Laser Postscript	*(775)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	845
ProTracer II-GL2 w. HP-GL2 & 2MB	1199
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2130 Quiet Dot Matrix	*(after rebate, 169)199
2135 Quiet Dot, Color	*(after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4430 Laser 5ppm, 1MB	665
Accessories (for 4430 & 4410) :	
- Corona KX-PCR3	49
- Developer KX-PDP4 / KX-PDP5	110/125
- Drum KX-PDM4 / KX-PDM5	99/109
- Extra Cassette KX-PKC2	45
- Fonts Card KX-P47X	95
- Fuser Unit KX-PFS5	105
- Optional Second Cassette KX-P495	135
- Toner KX-P453	42
Accessories (for 4400 & 5400) :	
- Apple Talk Interface KX-P412	179
- Drum Unit KX-PDM6	95
- Postscript Upgrade Board KX-PSU3	399
- Postscript Fax Option KX-PFX1	259
- RS232 Serial Interface KX-P411	95
- Toner Kit KX-P445	17.50
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
Accessories (for 4455, 4455 & 4450i) :	
- Developer KX-PDP1	95
- Drum KX-PDM1	145
- Envelope Tray KX-P430	59
- Legal Tray KX-P420	45
- Ozone Filter KX-PFT1	32
- Toner KX-P450	42
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Other Accessories :	
- 32k Buffer Dot Matrix KX-P43	65
- Auto Sheet Feeder for 1124 KX-P36	120
- Color Upgrade Kit KX-PCK11	55
- Serial Interface Card PS-13	75
- Single Bin Cut Sheet Feeder KX-PT10	95

SEIKO

Smart Label Printer Plus / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

Laser Printer Accessories :

PACIFIC DATA

25 in One! for HP Deskjet 500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	245
Font Bank for all HP Lasers 0.75MB / 1.5MB	199/259
Pacific Connect XI : for HP II, IID, III, IIID	
- 5 Port 256k / 1MB (4S 1P)	309/379
- 10 Port 256k / 1MB (10S)	449/519
for HP 4, IIISi, Paint Jet XL300	
- 7 Port 1MB / 4MB (6S 1P)	449/649
- 10 Port 1MB / 4MB (10S)	519/719
Pacific DirectNet for Novell	369
Pacific DirectNet for Novell, Unix & Etherlink	299
Pacific DirectNetEX for Novell & TCP/IP	469
Pacific 4, Postscript for HP4	259
Pacific Page II/XL 4mB, Postscript for HPII	669
Plotter in a Cartridge for HPII	225
Plotter in a Cartridge PE for IID, IIP, IIP+, III, IIID, IIIP	225

18. PROJECTOR

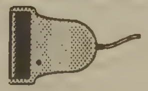
3M, NEC

projection products	call

PROXIMA

Desktop DP2300 LCD 8.4" 27mm 640 x 480	3750
Desktop DP2700 LCD 8.4" 33mm 640 x 480	5095
Desktop DP2800 LCD 8.4" 33mm 640 x 480	5595
Desktop 8400 LCD 16.7M Color, w. speakers	8295
Ovation 810 LCD 8.4" 2M Color, 640 x 480	2795
Portable Overhead A653 3000 Lumens	539
Portable Overhead A655 4000 Lumens	839

19. SCANNER



DELRINA

WinFax Pro Scanner	*(299)

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635

LOGITECH (hand)

Scanman Easy Touch w. OCR	129
Scanman 256 w. Omni Page OCR.	119
Scanman Color w. Omni Page OCR	195
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop LE.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	675
Scan Maker III w. TMA & OCR	2195

VISIONEER

PaperPort + OCR for Win	355

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*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

20. TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Dos/ Win/ Netware WS	89
Back Up Exec for Netware 7.0 Enterprise	845
Back Up Exec for Netware Single Server	465
Back Up Exec for Windows NT Server	469
Back Up Exec for Windows NT Workstation	189

COMBYTE

DP1800EA 800MB Int	135

COLORADO

DJ-35C Jumbo 350 340MB Int	135
DJ-50C Jumbo 1400 1.3GB Int w. Controller	259
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	295

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	985
Tape Stor w. cartridge 420MB Int / Ext	135/279
Tape Stor w. cartridge 850MB Int	199
Tape Stor 850MB w. cart. Ext (printer port)	349

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/649
EXB-4200 4mm Dat 2GB Int / Ext	799/975
EXB-8205XL 8mm Dat 3.5 - 7GB Int / Ext.	1275/1499
EXB-8505XL 8mm Dat 7 - 14GB Int / Ext	1985/2275

HP

C1534 4mm Dat 2-4GB SCSI Int	699
C1536 4mm Dat 4-8GB SCSI Int	799
C1533 4mm Dat 8-16GB SCSI Int	999
Colorado T1000 850MB Int Travan w. cartridge	185
HP Mounting Frame to 5.25"	27
Surestore 2000i (C1525F) 2GB w. Kit Int	895
Surestore 2000e (C1520F) 2GB w. Kit Ext	1075
Surestore 5000i (C1526F) 4GB w. Kit Int	1045
Surestore 5000e (C1521F) 4GB w. Kit Ext	1195
Surestore 6000i (C1528F) 8GB w. Kit Int	1225
Surestore 6000e (C1529F) 8GB w. Kit Ext	1395

IOMEGA

Ditto 800MB Travan Int	149
Ditto 800MB Travan Parallel	155

NOVASTAR (software)

Backup / Restore for MAC	62
Novaback 4.58 for Dos	65
Novaback for Windows	64
Novaback for Win '95	34
Novabakc for OS/2	63

SUMMIT

SE250 Int	135

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Graphics Pro Turbo 4MB PCI / VLB	449/449
Win Turbo 64 2MB PCI / VLB	275/275

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Stealth 64 1MB DRAM PCI	129
Stealth 64 2MB DRAM PCI / VLB	175/185
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Stealth Video 64 2MB VRAM PCI / VLB	269/275
- 2MB upgrade	165
Stealth Video 64 4MB VRAM PCI	459

MATROX

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Kelvin 64 Windows Accelerator 1MB VLB	119
Kelvin 64 Windows Accel. 2MB PCI / VLB	169/169

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	85
Tarantula 64 2MB VRAM VLB / PCI	219/219
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Visual dBase 5.5 for Win / upgrade	269/118

COREL

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Corel Draw 4.0 - CD oem	55
Corel Draw 5.0 - FD+CD / CD	*(459/415)
- upgrade fr 3.0 to 5.0 - FD+CD	*(325)
- upgrade fr 3.0 to 5.0 - CD only	299
- upgrade fr 4.0 to 5.0 - FD+CD	*(199)
- upgrade fr 4.0 to 5.0 - CD only	*(165)
Corel Draw 6.0 - CD (for Win '95)	*(439)
- upgrade fr 3.0 to 6.0 / fr 5.0 to 6.0	355/229
Corel Flow	64
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Ventura 5.0 - FD+CD / CD only	*(365/299)
- upgrade - CD	85

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- competitive upgrade - FD	*(345)
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- upgrade - FD / CD	315/*(299)
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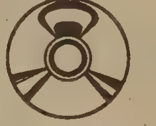

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Amiga

continued from page 240

FreeForm is another application for the 3-D modeler, but is not LightWave specific. It is a separately running modeler that makes it easy to create smooth complex objects. Most often you'll rail-extrude cross-sections to form objects. This includes the ability to morph one cross-section into another during the extrusion. There is also a mode that lets you create an object out of a series of cross-sections, much like Imagine's forms editor. The display update is blazingly fast, including its rendered previews. It saves in a variety of object formats, so it is compatible with all Amiga 3-D programs. Documentation is a bit weak, but the program is affordably priced.

One of the first LightWave particle animation utilities, Sparks, is still around. Wavemaker is still available too. 1995 saw the release of the second version of this logo animation program, with more effects and greater compatibility with LightWave.

Pixel 3D Pro is a great application for the 3-D animator. It supports a variety of 3-D object formats, plus it has its own set of object manipulation tools. It's very nice for creating 3-D objects out of PostScript fonts with a beveled edge. You can also use it to quickly preview objects.

Other CD-ROM Offerings

Everyone knows you can't fool Mother Nature. It's nearly as difficult to fool human beings with computer-generated imagery.

To solve this problem, several companies have released royalty-free stock footage image sequences of natural scenes that can be animated. My favorite of these is Moving Textures 100, which features some very professional animations of real clouds, fire, ocean waves, smoke, etc. It even comes with a reference VHS tape. This is perfect for digital video productions as well as 3-D animations.

"He blowed up real good" is a phrase from the old SCTV comedy television series that might be applicable to VCE's Pyromania 1 and 2. These two CDs include some fantastic sequences of real explosions, fire, smoke, fireworks, and more. These are top-notch high-grade images; some of them have already made their way into network TV special effects. This is a must-have for outer space battle scenes.

Several nice object collections are also available. Amiga Library Services distributes the Light-ROM series, with two volumes released so far. Geared for the LightWave user, these discs include LightWave 3D objects, scenes, surface files, textures, animated maps, images, utility programs, ARexx scripts, CG and PostScript fonts, and Toaster effects.

Syndesis also distributes a couple CDs for the 3-D animator. Objects come in LightWave, Imagine, AutoCAD, 3D Studio, and Wavefront formats. The first volume also includes tileable TIFF, GIF, and IFF24 images.

Graphics

Well, 1995 finally saw the release of DeluxePaint V (aka DPaint 5) from Electronic Arts. Don't even think of using this on less than an '040 class machine. All of the new bells and whistles have taken a real toll on performance.

Still, there are a lot of cool things in the latest and perhaps final version of this all-time favorite. For A1200s and A4000s, DPaint IV AGA still has a lot to offer. There are even those who feel that DPaint III was the last real DPaint because it was the last version by the original programmer, Dan Silva.

ImageFX 2.0 was released this year with even more incredible features. Perhaps the most important one is support for 24-bit graphics boards using the Cybergraphics standard. You can finally use all of ImageFX's fantastic paint and image processing tools with Retina, Picasso, etc. Toaster support has also

RESOURCES:

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Amiga Computing		44 151 357 2813 fax (England)
Amiga-Link	AmiTrix Development	(403)929-8459
Club Toaster		1-800-525-2203
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TypeSmith	Soft-Logik Publishing	1-800-829-8608
Video Toaster User	*LightWave Pro*	1-800-774-6615
Wavemaker 2.0	Radiosity	(612)787-0855

been added. Although this includes the Preview as well as the Render display, the Preview display is not updated in real time. The Toaster framestore buffer is updated after each paint operation is finished. Still, this is a nice feature for Toaster users.

Anyone using the Video Toaster professionally should own AlphaPaint, InnoVision Technology's paint system that uses the Toaster's video buffer for display. I can't say enough good things about it. You can create beautiful still images with such minimal effort (and in my case minimal talent!). I'd even recommend it to LightWave animators for creating and touching up image maps.

Another great utility is MainActor. I've only used the shareware version, although there is a professional version called MainActor Broadcast. One particular project I was working on called for delivery of the animations not only in video form, but also AVI. At the time nothing on the Amiga supported that format. We ended up converting Amiga anims to FLC using MainActor. Then, using Premiere on the PC, the FLC files were converted to AVI. MainActor now directly supports AVI, QuickTime, and many other formats.

Font Barrier

The barrier is finally down. Using Soft-Logik Publishing's TypeSmith, Amiga owners finally have access to the tons of TrueType fonts now available.

Although it doesn't let you use TrueType fonts in native mode (I've only seen one Amiga program do this), you can translate them to PostScript, Compugraphic, or even Amiga bitmap with ease. Of course, TypeSmith is also a great application to modify or create your own typefaces and save them in any of the popular formats. Videographers, desktop publishers, 3-D animators, etc. can all benefit from this program.

Speaking of fonts, I just got a wonderful CD collection called Handwritten Fonts from T/Maker. There are about three hundred fonts that all look like they were written by hand. They are in TrueType format, so you'll need TypeSmith to convert them to PostScript for use on an Amiga. T/Maker will also make a font using your own writing!

Floppy Port Network Is Back!

AmigaLink was originally imported from Germany by the now-defunct Spectronics (they also imported the Merlin graphics board). I'm extremely excited to see it picked up by AmiTrix Development, a Canadian company.

This is a very cool peer-to-peer Amiga network that uses the floppy disk port. It is SANA II compatible and will ship with Envoy—this is a real network. You can have a room full of Amigas on an AmigaLink network.

Another big plus is your parallel and serial

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Amiga *continued...*

port won't be tied up, as they are with other similar products. AmigaLink is compatible with internal and external floppy drives, but using them simultaneously while transferring data over the network will cause some contention. Though it is a tad on the slow side, its features more than make up for this.

Hard Storage

The prices of SCSI hard drives have dropped through the floor this year. I just bought a 340MB SCSI II drive for $95! One-gigers can be had for only a few hundred dollars; two gigs are less than a grand; four cost under $1500; and I've seen 9GB drives for around $2K! There has never been a better time to buy a hard drive.

Iomega recently introduced their Zip drive, an inexpensive 100MB removable media drive for $200. Syquest responded with a similar product, their EZ drive, with better capacity and performance for a bit more money. Both use relatively inexpensive disks.

However, I suggest holding onto your wallet and wait for the Iomega Jaz drive. This is a 1GB removable media drive that is supposed to cost around $500, with extra cartridges only $100. What caught my attention is that the performance specs are equal to or better than many hard drives. (I'm going to have to see this in action before I believe it, however.) I'm told that Iomega is very interested in getting the drive to work with the Flyer. Jaz is liable to blow Iomega's competitors right out of the water.

> THERE HAS NEVER BEEN A BETTER TIME TO BUY A HARD DRIVE.

Leaning Tower Of Toasta

Yes, this year's column leans a lot towards the Video Toaster and LightWave 3D, but that's where most of the new Amiga product development has been.

Of course, a ton of games and productivity applications were also released in 1995. Check out the pages of any of the magazines I mentioned for more products. I'm anxious to see what happens when new Amigas start being available again. Next year's column should be chock-full of new "stuff." ■

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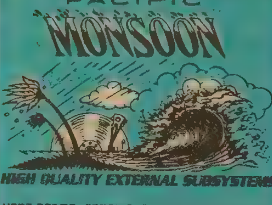

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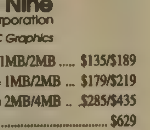

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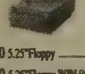

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9GXE 64 PRO PCI 2MB DRAM	$239
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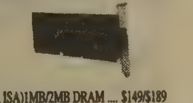

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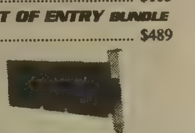

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Maxell	MC3000XL	1.3GB	$25/$130
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3M	Magnus	2.5 GB	$45/$225
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Sony	4mm	90met.	$12/$59
HP	4mm	90met.	$10/$50
Sony	4mm	120met.	$22/$110
Exabyte	8mm	112met.	$18/$89
TDK	8mm	112met.	$9/$45
Maxell	8mm	112met.	$8/$40

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3M	CDblank	74Min	$11/$55
Sony	CDblank	74Min	$12/$65
Maxell	CDblank	74Min	$10/$50
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Syquest	5.25"cart.	88MB	$54/$265
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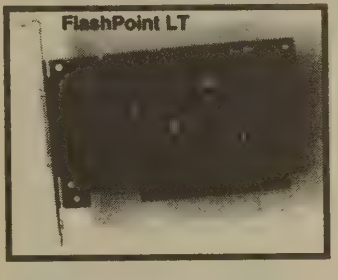
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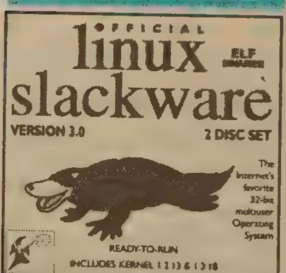
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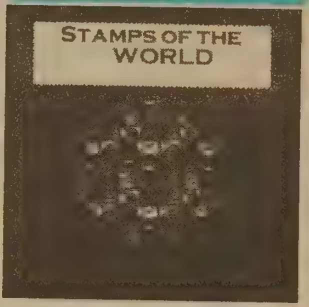

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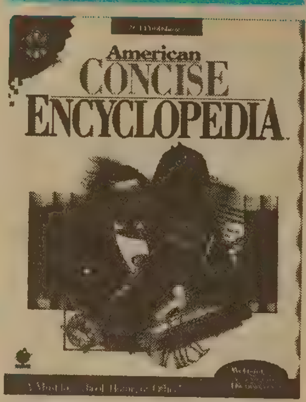

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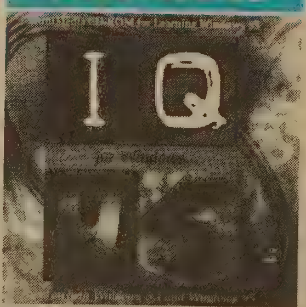

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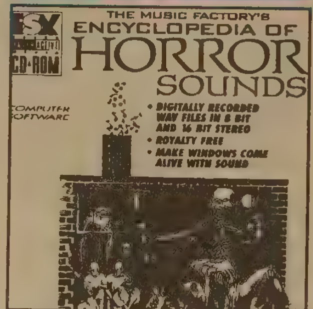
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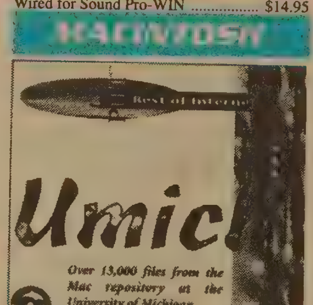
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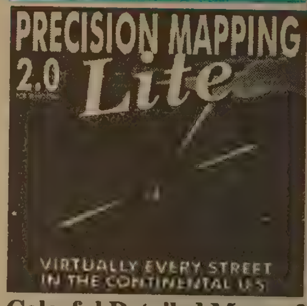

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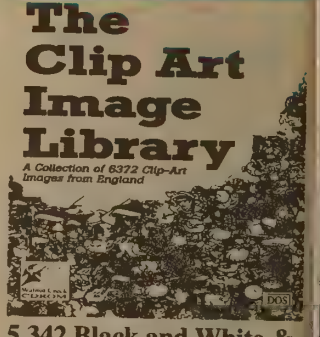
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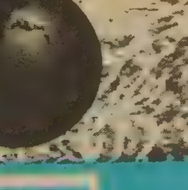

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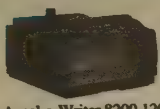

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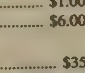

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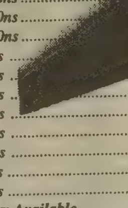

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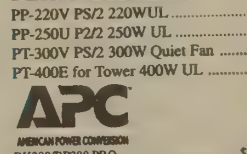

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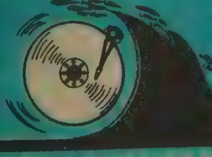

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New Games Get Psychic

continued from page 242

The Monster. How did they avoid role-playing gender identification problems? To maintain the sense of the unknown, the user never sees a mirror, except for one ambiguous instant. And, because the Good Doctor never wasted a part, one of your arms (and who knows what else) once belonged to a woman.

This title is indicative of a new challenge that many digital entertainment producers are beginning to face. Delivering a high-quality, accessible product may not always be enough to make it stand out in the marketplace. Celebrity/brand name recognition and association—and its attendant cost—is becoming one more component to include in the box. Amazing Media is only a mouseclick away on the map from major Marin title breweries like Brøderbund, LucasArts, and Mindscape, Inc. (formerly The Software Toolworks) but, to be closer to them in output, they can't leave any feature unturned.

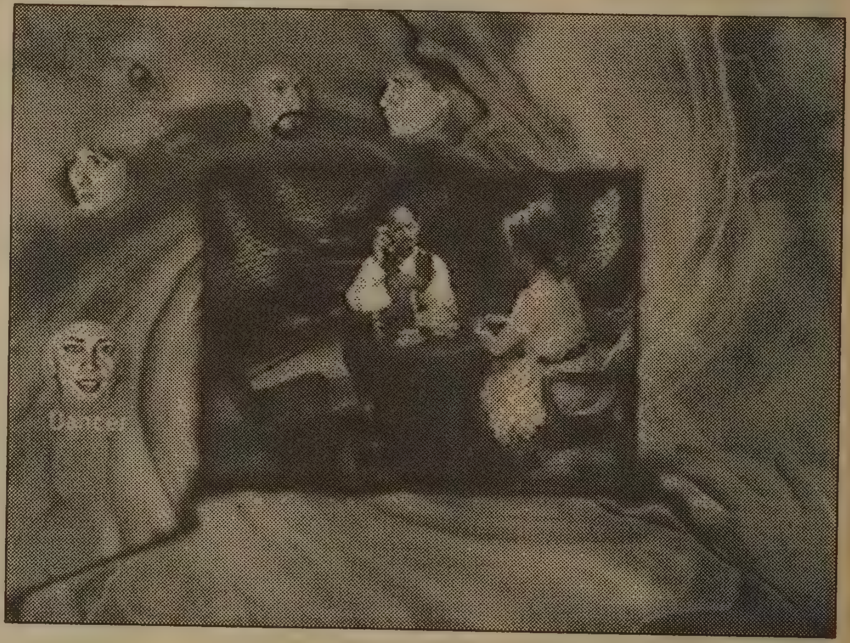
In playing the game, everything is beautifully modeled and rendered in full-screen motion with shadow details and ambient sound. It is a graphic adventure with the depth of an exploration piece as you try and piece together the spooky mysteries. You can call a 900 number for hints (Pssst!—the combination for the acid lab door is UUDUD). Spatially it remains within the *Spaceship Warlock*-era point-click-and-move method of navigation. In *Doom*, for comparison, you can move in constant global motion within a virtual 3-D environment. But, as with *Doom*, I am happy to say, you can also save at any point in *Frankenstein*.

Psychic Detective

Created by Executive Producer Jim Simmons of Electronic Arts, directed by digital virtuoso John Sanborn from Colossal Pictures, and keyboarded by screenwriter Michael Kaplan, the character-driven mystery-comedy *Psychic Detective* takes interactivity to a new mental plane. Paralleling literary and cinematic conventions where the reader's point of view can inhabit different people, you, the player, will select characters in the drama and take the risks of getting inside their heads.

This wrinkle in mind pivots around the paranormal protagonist Eric Fox, who is a psychic (but one who does *not* advertise on cable TV). As the central character, Fox provides the continuity through your jarring cybertripping 'twixt cortexes and crises. In the three-minute opening and in transitions, a hard-boiled detective-style voice-over informs and reveals.

The methods of making multimedia games see more changes in one year than the fledgling motion picture industry saw in ten years.



Above: on the set for Psychic Detective; right: the finished product.

"I like a lot of the '50s black-and-white film noir," confesses Simmons—"*Asphalt Jungle, Kiss Me Deadly, Dark Passage.* The voice-over helps to compress the back story; it gives some of Fox's opinions and supports the player's sense of ominous mood. Fox doesn't know any of these people, or this weird community of Russian Psychics that he's fallen into. He doesn't know who to trust."

I saw a preview demo of *Psychic Detective* at Electronic Arts, and in its public premiere at the 18th Annual Mill Valley Film Festival. There, the game was demonstrated on a computer outputting through a video projector to animate the classic big screen of the Sequoia theater. Actor Peter Coyote manned the mouse for the first foray through the shimmering cyberstage.

The opening, the introduction, and Fox's POVs are framed in full screen; the character POVs are quarter-screen. As you cruise through the different locations and scenes of the story, characters and objects appear as icons around the frame, revealing their availability. Click on a character and you enter their POV. Other characters and objects, perhaps not visible from the POV of the last character, may become available and expand the number of plot possibilities.

The game is meant to be played through and concluded within thirty to sixty minutes, so point-to-point saves, as in Doom, are not necessary. Each time the game is played, different experiences, outcomes, and continuity can be played back. The game is meant to be playable ten or fifteen times. On PCs, but not on game machines, concluded games can be saved for playback viewing.

At the end of the narrative continuity of *Psychic Detective* you are confronted with the riddle of concluding a 3-D board game called Black Diamonds. Spinning cubes bear the images of the characters and objects you've selected, and now it's up to you to make symmetrical sense of it all. If you can.

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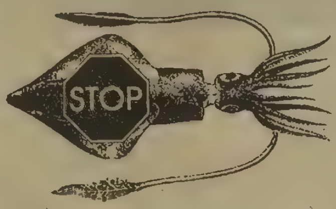

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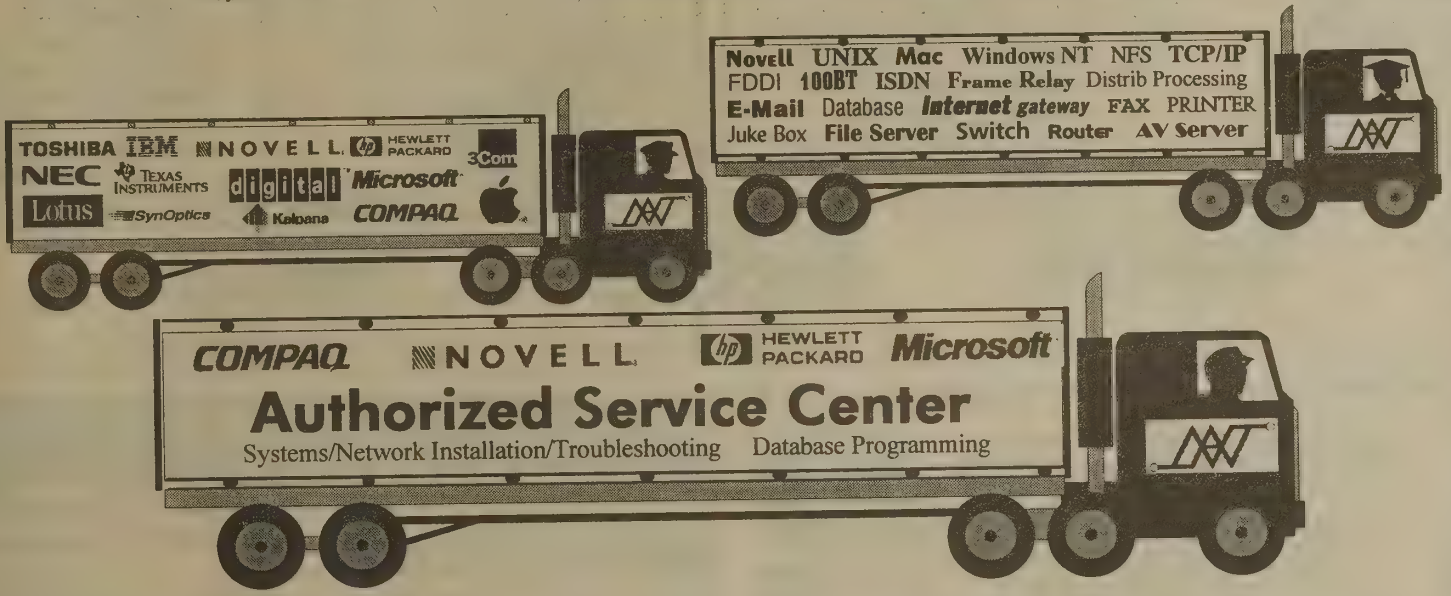
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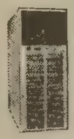
Systems/Network Installation/Troubleshooting Database Programming

To Internet or not to Internet? That is not the question. Here are the questions...

How do I choose ISP?
What type of connection/bandwidth do I need?
How do I connect to the local network?
What security protections can I implement?
What is proxy server? Firewall? Security token?
How many calls & how long does it take me to
- Arrange phone company's installation?
- Select the right ISP?
- Apply for the Domain Name?
- Get the right connection setup from ISP?

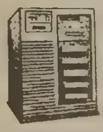
How many hours or days do I need to install
- Communication hardware?
- Communicaiton software?
- Server driver?
- Client driver?
- Client Application?
- LAN to Internet interface?

Shall I shop all the parts all over the place?
Shall I go see Network Assoicates for a peaceful turnkey service and save all the trouble?



Pentium 90 File Servers

-- 32M RAM, 32-bit Fast-SCSI2 adapter, 4G HD, SCSI2 CD ROM, 32-bit Ethernet card --



COMPAQ	IBM	digital	HEWLETT PACKARD
Prosignia Server	PC Server	DECpc XL Server	NetServer
P-90 File Server 7,275	P-90 File Server 8,194	P-90 File Server 7,186	P-90 File Server 9,262

Network Associates Corporation

Sunnyvale 408-733-2600 Fremont 510-249-2100 Walnut Creek 510-820-1628
FAX: 510-249-2121 email: sales@nac.com

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- MicroStar PCI w/ Power Saving
- Pentium™ OverDrive Ready
- 80486DX2-66 CPU w/fan
- AMI BIOS w/ 256K Cache
- 8MB RAM 70ns 72 pin
- Teac 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 850MB EIDE HD
- Trident 256K VGA Card
- 14" Mono VGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 3COM PCI Ethernet card
- 250-Watt Power Supply

$999

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265

NOVELL STATION

- MicroStar PCI w/ Power Saving
- Pentium™ OverDrive Ready
- 80486DX2-66 CPU w/fan
- AMI BIOS w/ 256K Cache
- 4MB RAM 70ns 72 pin
- Teac 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 270MB IDE HD
- Trident w/ 1MB PCI
- 14" .28dpi 1024x768 SVGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 230-Watt Power Supply
- 16 bit Ethernet card
- Mouse

$849

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265

WIN-NT STATION

- MicroStar PCI w/ Power Saving
- Pentium™ OverDrive Ready
- 80486DX2-66 CPU w/fan
- AMI BIOS w/ 256K Cache
- 16MB RAM 70ns 72 pin
- 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 630MB IDE HD
- Diamond Stealth Video w/ 1MB
- 14" .28dpi 1024x768 SVGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 250-Watt Power Supply
- Mouse

$1259

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265

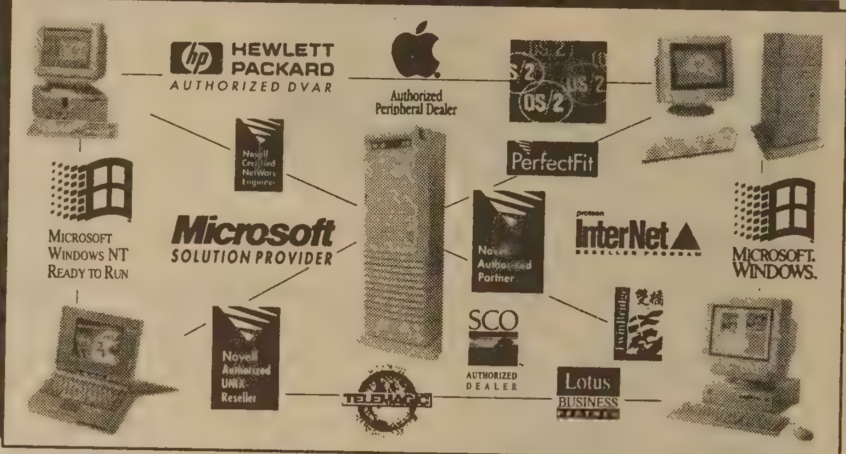
LINUX STATION

- MicroStar PCI w/ Power Saving
- Pentium™ OverDrive Ready
- 80486DX2-66 CPU w/fan
- AMI BIOS w/ 256K Cache
- 8MB RAM 70ns 72 pin
- 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 630MB IDE HD
- Diamond Stealth 64 w/ 1MB PCI V2001
- Acer 15".28dpi SVGA
- Epson 55E 2 Speed CD-Rom
- Mitsumi 101-key Keyboard
- Mini Tower Case
- 230-Watt Power Supply
- Mouse

$1149

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265



Plug & Play/Ready To Run Network System
Novell Certified & FCC "B"

Pentium 90 PCI File Server

- Pentium 90 PCI 256K Motherboard
- 16MB RAM, Upgradable to 64MB
- 1.0GB SCSI-II Hard Drive
- Adaptec 2940 PCI SCSI Controller
- VGA Card w/ 14" VGA/Mono Monitor
- Teac 1.44 Floppy Drive
- Medium Size Tower Case w/ 250W Power Supply
- 101 Key Enhanced Keyboard
- 10BaseT/10Base2 Combo Ethernet Card
- Quad Speed SCSI-CD-ROM Drive
- 2 Serial and 1 Parallel I/O Port

486DX2-66 VLB Workstation

- 486 DX2-66 Mhz PCI Local Bus 256K Cache Motherboard
- 4MB RAM, Upgradable to 64MB
- PCI SVGA Video Card w/ 1MB
- 14" Non-Interlaced SVGA Monitor
- Teac 1.44 Floppy Drive w/FD/HD+I/O Controller
- Mini Tower Case w/ 230W Power Supply
- Mitsumi 101 Key Enhanced Keyboard & Mouse
- 10BaseT/10Base2 Combo Ethernet Card

Novell Netware V3.12

*5 User Network System $5,999
(1 File Server w/ 4 Workstation, & 8 port 10BaseT hub)

*10 User Network System .. $10,759
(1 File Server w/ 9 Workstations, & 12 port 10BaseT hub)

*25 User Network System .. $22,559
(1 File Server w/ 24 Workstations, & 32 port 10BaseT hub)

Network software will be pre-loaded, configured and tested. Please call for network cable installation price quotation.

NETWORK

3Com

3C590 PCI 10 BASE TP	$129
3C509 ETHERLINK III TP/COMBO	$79/95
3C589 PCMCIA TP/COMBO	$159/189
3C595-TX PCI 10/100 TP	$219
3C16170 LINK BUILDER (12 TP)	$347
TRANSCEND LINK BUIILDER FMS MANAGEMENT	$339
LINKSWITCH 1000	$3355
LINKSWITCH 1200 ENET, 10BT	$4678
LINKSWITCH 500 10BT SWITCH 10RJ45, 1RS232	$2696
LINKBUILDER FMS II 12-PORT TP 12 RJ-45 ONE AUI	$561
LINKBUILDER FMS II 24 PORT TP 24 RJ-45, ONE AUI	$970
LINKBUILDER FMS II 48-PORT TP SYSTEM / 4-12 PORT UNITS	$2391
LINKBUILDER FMS II 48-PORT TP SYSTEMS / 2-24 PORT UNITS	$2089

DIGI INTERNATIONAL

PC IMAC-ISA ENNET 16BIT ISDN	$493
PC IMAC/4-1 MULTIPORT ISDN CONNECTION PROCESSOR BOARD	$617
PC IMAC/4-2 MULTIPORT ISDN CONNECTION PROCESSOR BOARD	$977
PC IMAC/4-4 MULTIPORT ISDN CONNECTION PROCESSOR BOARD	$1937
DATAFIRE ENET 16 BIT ISDN	$369
DUAL IMAC ENET BRIDGE 2-ISDN	$1399
IMAC ENET BRIDGE 1-ISDN	$1043

intel.

ETHEREXPRESS 16 TP/COMBO	$80/89
ETHEREXPRESS PRO 10 COMBO	$98
ETHEREXPRESS PRO/100 PILA 8465 PCI TP	$214
NETPORT II THIN & THICK/10 BT	$385
NETPORT EXPRESS XL	$449

Megahertz

PCMCIA COMBO 14.4 & ETHERNET 10 BASE T	$340
PCMCIA ETHERNET 10 BASE T OR 10 BASE 2	$149

NATIONAL SEMICONDUCTOR

INFOMOVER NE2000+ COAX	$71
INFOMOVER NE2000+ TP	$67
INFOMOVER NE2000+ COMBO	$84
INFOMOVER NE4100 PCMCIA	$169

HEWLETT PACKARD

ADVANCED STACK 12/24 PORT HUB	$579/949
JET DIRECT J2550A TP/J2552A COMBO	$320/385
ETHERTWIST LANSWITCH 30MBPS 6-PORTS 4RJ45	$2319

NETWORK PERIPHERALS

EIFO SWITCHING HUB 12 10BIT ENET 1 UTP FDDI (SAS) UPLINK	$5527
EIFO SWITCHING HUB 12RJ45 ENET 2 FIBER FDDI (DAS) UPLINKS	$6633
EIFO SWITCHING HUB 6RJ45 ENET 2 UTP FDDI (DAS) UPLINKS	$3683

IBM

4/16 BIT TOKEN RING	$205
16 BIT ETHERNET	$79

SMC

ELITE ULTRA 16 COAX/TP/COMBO	$74/84
ELITE PLUS 16COMBO	$129
TIGERSWITCH XE ENET SWITCH HUB 24PORTS 1AUI, 1RS-232C	$6773
TIGERHUB 100 100BASET HUB 16PORT FASTNET	$2865
TIGERHUB CX6 10BT TIN COAX 7 PORTS 6BNC 1AUI US LINE CORD	$613
TIGERHUB TP12 10BT HUB 12 RJ45, 1 BNC, 1 AUI	$364
TIGERHUB TP6 10BT HUB 6RJ-45 1 AUI PORT FOR BACKBONE NET	166
TIGERHUB TP6B 10BT HUB 6RJ-45 I BNC FOR THIN COAX	$184
TIGERSTACK 3312TC ENET 12RJ45 IAUI, IBNC W/ ISTACK CABLE	$500
TIGERSTACK 3326TC ENET 24RJ45 1AUI IBNC W/ 1STACK CABLE	$883
TIGERSTACK 3328T ENET 28RJ45 W/ 1 STACK CABLE	$883

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10 T HUB 8 PORT	$179
10 T HUB 12 PORT	$359

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NETWARE CONNECT V1.0 2 USER	$415
3.12 OR 4.1 5/10/25 USER	$450/990/1490
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NETBLAZER LS/ISDN 1 BRI PROT ASYNC/SYNC	$1146

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NT1D NETWORK TERMINATOR	$175
HMTA 200 TEM ADAPTER V.32BIS	$666
UTA220 TERMINAL ADAPTER U-INTEG 2-PORTS V.35/RS232 SELECTABLE	$720

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ASCEND PIPELINE 25 BRI S/T INT. / U INT.	$650/CALL
PIPELINE 50 ISDN SINGLE / W/ NT1	$780/975
PIPELINE 50 ISDN MULTI / W/NT1	$1219/1342
PIPELINE 400B / 400T / 400-4BRI	$3861/4680/7605

CISCO SYSTEMS

LAN2LAN ENTERPRISE ISDN 4-BRI	$3819
LAN2LAN ENTERPRISE ISDN BRI	$1764
LAN2LAN REMOTE OFFICE ISDN BRI	$1294

GANDALF PREMIER

LANLINE 5240i ISDN BRIDGE ENET 1RJ45 NI-1 ISDN PORT 1AUI 1DB25	$1639
LANLINE 5240i ISDN BRIDGE ENET BRIDGE 1ISDN S, 1AUI W/OUT NT-1	$1766
LANLINE 5242i ISDN BRIDGE ENET BRDG 1ISDNMOD, 1 10BT W/ ANALOG VOICE	$980
LANLINE 5242i ISDN BRIDGE ENET 1ISDNMOD, 1 10BT W/ OUT ANALOG VOICE	$774

IBM

WAVERUNNER 64KINT ISDN ISA BUS ISDN/G3 FAX/ANALOG COMPAT. W/ SW	$494

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- MicroStar PCI w/ 256K Motherboard
- 80486DX2-66 CPU w/fan
- 8MB RAM 70ns 72 pin
- Teac 1.44MB Floppy Drive
- 32 Bit PCI IDE w/ HI SPEED IO
- Quantum 630MB IDE HD
- Diamond Stealth Video w/ 1MB
- Acer 15" 1024x768 .28dpi SVGA
- Mitsumi 101-key Keyboard
- Mini Tower Case w/ 230W PS
- Logitech Mouseman
- Microsoft DOS 6.22
- Microsoft Windows 3.11

$1179

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265

MOVIESTATION

- NexGen VLB MB & P90 CPU
- 8MB RAM 70ns 72pin
- 1.44MB Floppy Drive
- 32 bit VLB IDE w/ 2S/1P/1G
- Quantum 630MB IDE HD
- 32 Bit VLB Video Card w/ 2MB
- Acer 15" .28dpi Non-Interlaced SVGA
- Mitsumi 101-key Keyboard
- Mini Tower Case w/ 230W PS
- Epson 2-Speed CD-ROM
- Sound Blaster 16 bit Sound Card
- Deluxe Speaker & Mouse
- Sigma Designs Reel Magic Lite
- Microsoft DOS 6.22 & Win 3.11

$1549

UPGRADE...

TO NEXGEN P100	$80

INTERNET STATION

- MicroStar PCI w/ 256K Motherboard
- Pentium™ OverDrive Ready
- 80486DX2-66 CPU w/fan
- 4MB RAM 70ns 72 pin
- 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 630MB IDE HD
- 32 Bit PCI Video Card w/ 1MB
- 14" .28dpi 1024x768 SVGA
- Mitsumi 101-key Keyboard
- Zoltrix 14400 Fax/Modem
- Mini Tower Case P.S.
- MS Windows 95

$959

UPGRADE...

TO DX4 100	$45
TO Pentium™ 75	$150
TO Pentium™ 100	$265

DUAL PENTIUM

- One Intel P90 CPU w/ fan
- ASUS Dual Pentium Mainboard
- 4 PCI/4 ISA Slots/256K SIS Chipset
- 8MB RAM 70ns 72 pin
- 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- Conner 1.2GB EIDE HD
- Diamond Stealth 64 w/ 1MB PCI
- Acer 15".28dpi SVGA
- Mitsumi 101-key Keyboard
- Mini Tower Case
- 230-Watt Power Supply
- Mouse and Pad

$1669

UPGRADE...

TO Pentium™ 100	$40
TO Two Pentium™ 90	$265
TO Two Pentium™ 100	$380

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American Power Conversion APC

SMART UPS 250VA/400VA	$240/299
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SMART UPS 1000VA/1400VA	$509/629
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PT-50 4 GB INT/PT-50E 4 GB EXT	$995/1205
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4324RT 4.0 GB INT	$719
4354RT 4.0 GB EXT	$1095
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EXB-2501 1-2 GB SCSI-2 EXT	$619
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EXB-8205 XL 8MM DAT 3.5-7 GB INT	$1249
EXB-8205XL 8MM DAT 3.5-7 GB EXT	$1349
EXB-8505XL 8MM DAT 7-14 GB INT	$1899
EXB-8505XL 8MM DAT 7-14 GB EXT	$2209

HEWLETT PACKARD

35470 4MM DAT 2-4 GB SCSI INT	$729
35480 4MM DAT 4-8 GB SCSI INT	$829
C1533 4MM DAT 8-16 GB SCSI INT	$999
HP MOUNTING KIT UP TO 5.25"	$24

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1742/2742A/2742TK EISA SCSI	$190/310/330
3940/3940W W/ KIT	$328/474
2842 VLB SCSI W/ KIT	$180
2940/2940UW SCSI PCI W/ KIT	$192/258
APA1460 SLIM PCMCIA SCSI	$169
ASW-EZ SCSI 3.1 FOR DOS & WINDOWS	$65
T348K PARALLEL TO SCSI ADAPTER	$169

BUSLOGIC

BT-445C VLB FAST SCSI-2 W/ KIT 10MB/SEC.	$192
BT-545C ISA FAST SCSI-2 W/ KIT 10MB/SEC.	$182
BT-747S EISA FAST SCSI-2 W/ KIT 10MB/SEC.	$299
BT-930 PCI SCSI W/ WINDOWS'95 DRIVER	**$73**
BT-946C PCI FAST SCSI-2 W/ KIT 10MB/SEC.	$259

PROMISE TECHNOLOGY, INC.

E-IDE ISA MAX/DC-2300 + E-IDE W/ 16550	$29/49
DC-4030+ VLB IDE CACHE 4HD	$99
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MOTHERBOARDS W/ CPU

AIR

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486DX4-100 256K PCI/VLB W/ IDE & IO (AMD)	$230
PENTIUM 100 PCI/VLB 512K W/ IDE & IO	$579

American Megatrends

TITAN II DUAL PRO P120 EISA/PCI W 1 CPU 512K	$1799
ATLAS P90 256K W EIDE/IO PCI	$799

NEXGEN

P100 256K 3PCI EIDE, 16550	$399
P90 256K 3VLB	$217
P90 256K 3PCI EIDE, 16550	$319

ASUS

486DX2-66 256K W/ 2 VLB (INTEL)	$229
486DX2-66 256K PCI W/ SCSI&IDE (AMD)	$314
486DX4-100 256K PCI/VLB W/ IDE (AMD)	$219
DUAL P90 ISA/PCI 256K W/ EIDE & IO 1 CPU	$617
DUAL P100 ISA/PCI 256K W/ EIDE & IO 1 CPU	$661
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TRITON CHIPSET P75 256K EIDE IO (16550)	$373
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TRITON CHIPSET P133 256K, EIDE, IO (16550)	$771
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intel.

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ZAPPA (TRITON CHIPSET) P90 256K	$481
ZAPPA (TRITON CHIPSET) P100 256K	$525
ZAPPA (TRITON CHIPSET) P120 256K	$588
ZAPPA (TRITON CHIPSET) P133 256K	$782
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ENDEAVOR W/ CREATIVE CHIP, EIDE & IO 256K P100	$617
ENDEAVOR W/ CREATIVE CHIP, EIDE & IO 256K P120	$680
ENDEAVOR W/ CREATIVE CHIP, EIDE & IO 256K P133	$869
PIPELINE BURST 256K/512K CACHE UPGRADE	$70/170

MICROSTAR

486DX2-66/80 256K 3VLB (AMD)	$132/153
486DX4-100 256K 3VLB (AMD)	$187
486DX4-100 256K PCI W/ IDE & 10 (AMD)	$209
TRITON CHIP PCI P75/90/100 W/ IDE & IO 256K	$343/440/484

FIC

486DX2-66/80 256K W/3VLB (AMD)	$117/138
486DX4-100 256K 3VLB (AMD)	$172
TRITON CHIP PCI P75/90 W/ IDE 16550	$355/452

IBM

486-75 256K 2 VLB W/ MATH IDE/IO	$154

SUPERMICRO

TRITON CHIPSET P75/90/100 256K	$452/552/664
TRITON CHIPSET P75/90/100 W/ 256K PB	$509/609/729
PENTIUM 75/90/100 PCI/VLB 256K	$345/449/559
386DX-40/128K	$88

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1X3 SIMM 70/60NS 1MB 30 PIN	$33/36
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EDO MEMORY 2X32 70NS	$327
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AMD 486 DX2 80 3.3 V	$50
AMD 486 DX4 100/120	$85/105
INTEL 486 DX2 66	$94
INTEL 486 DX4 100	$93
INTEL PENTIUM 75	$170
INTEL PENTIUM 90	$267
INTEL PENTIUM 100/120	$309/374
INTEL PENTIUM 133	$559
PENTIUM PRO P6-150	CALL

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MITSUMI

FX400 230MS 600KB/S, 4 SPEED IDE INT	$145

NEC

3XP PORTABLE 3 SPEED	$370
CDR-511 220MS 600KB/S 4 SPEED INT	$189
CDR-512 6X INT	$301
6XI RETAIL	$465

Panasonic Office Automation OA

LMD-747 4 SPEED 600 KB/S AT	$158
LMD-574 4 SPEED 600 KB/S EIDE	$131
LMD-504 4 SPEED 600 KB/S SCSI II	$154

PHILIPS

PCMCIA 2 SPEED W/ CARD	$280

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PX-43CH 220MS 600KB/S 4 SPEED	$379
PX-63CS 145MS 900KB/S 6 SPEED	$455

SONY

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TEAC

CD-55A 195MS 600KB/S 4 SPEED INT	$121
6X EIDE INT	$221

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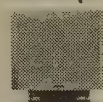

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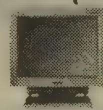

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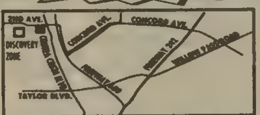

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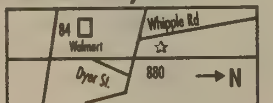

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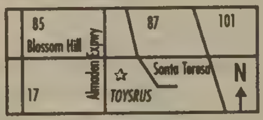

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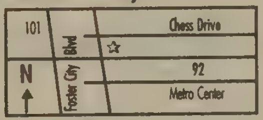

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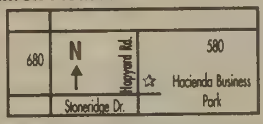

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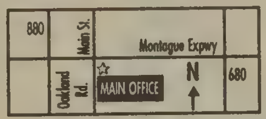

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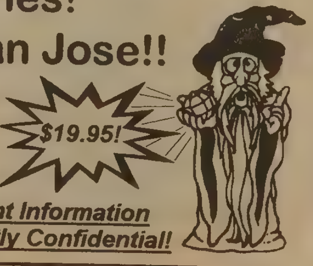

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Multimedia Authoring

continued from page 246

many developers use several authoring packages. Often, it is also necessary to use additional video and sound editing packages, image processing, file format conversion utilities, and database and file management packages to get the job done.

Compare features, prices, budget, and time contraints. Weigh the strengths, weaknesses, and options of each. Even after all this research there is still no way to be fully sure how well any package is going to fill your needs until you've encountered your own case-specific sets of problems. ■

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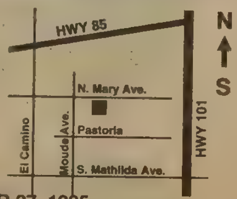

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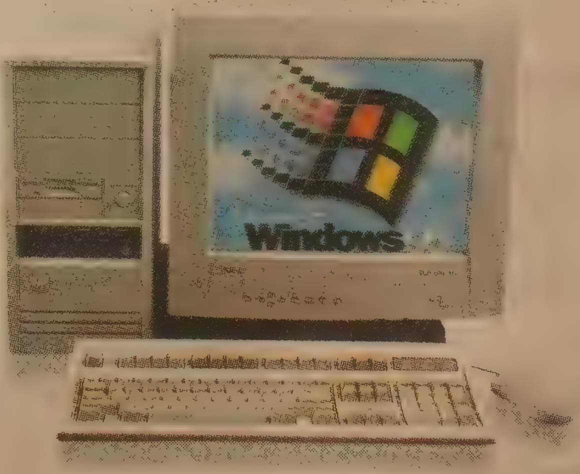

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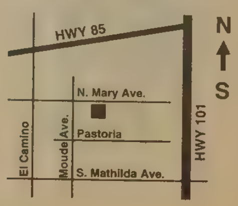

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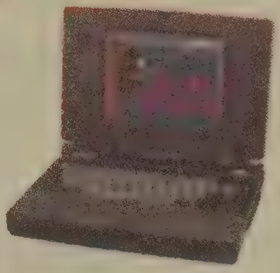

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New Games Get Psychic *continued from page 320*

Slated to hit the shelves to meet the Christmas rush, *Psychic Detective* will be issued for 3DO, Windows, and Sony Playstation, with a Macintosh version probably following later.

Games Online

rec.g@mes: Games and Game Resources on the Internet by Joseph Grant Bell (BradyGames, 414 pp., $19.95) is an excellent compendium of what's available in the great big gaming arena of cyberspace. And there really is quite a lot.

For games you're already playing, like *Doom* and *Descent*, there are many resources, newsgroups, and Web pages, and for every realm of game activity and interest, including the Video Arcade Preservation Society and BattleTech. You'll find everything you would want to know—and to access—about MUDs, MOOs, and MUCKs (that is, MultiUser Dimensions/Dungeons and such). There are resources to games you can play by email, and a whole chapter on arcade and cartridge game resources. Bell goes on to include all the addresses for more terrestrial games like Magic, chess, and other card and board games. But here, it's all online.

Multimedia games are being accelerated along two main development paths: more realistic full-screen full motion video, and the development of interactive dramatic narrative.

A Different Game

Now at election time, it is my citizen's duty to report on another relevant resource, Gerard Jones' *How to Lie With Charts* (Sybex, 279 pp., $16.99). Of interest not only to Perot-watchers and Gingrich-gleaners, this tart tome demystifies charts and graphs in graphic presentations. The author shows that far from being figures cast in stone, chart specs can just as easily be cue balls on rubber sheets. His point is not just to debunk bars and pillory pie-charts, but to enable us to more clearly see what is real from what is puffery. ■

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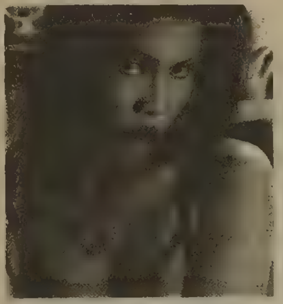

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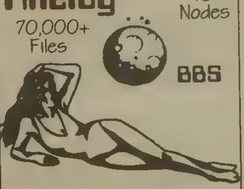

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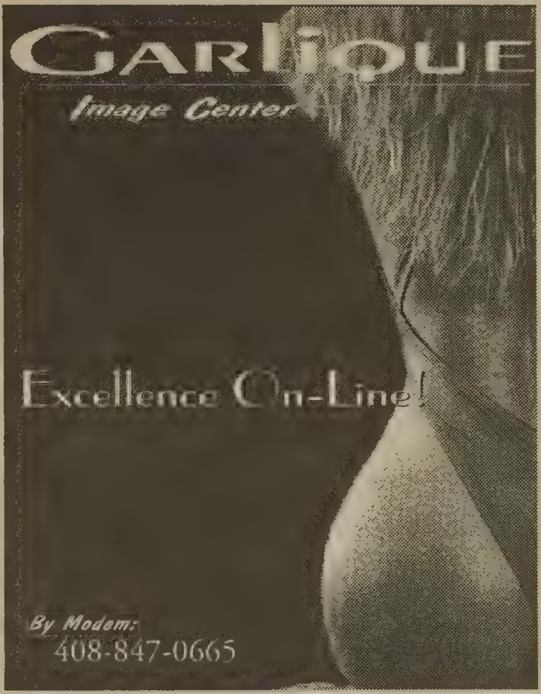

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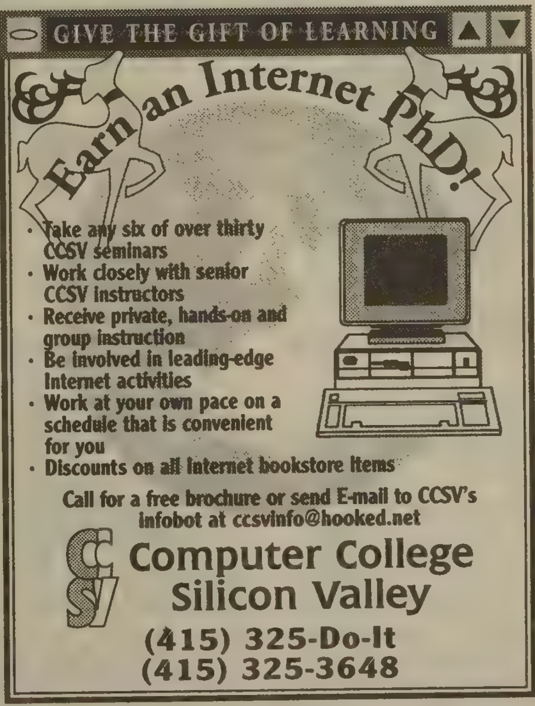
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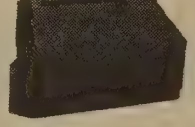

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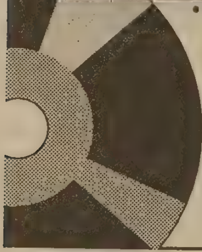

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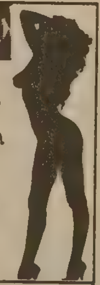

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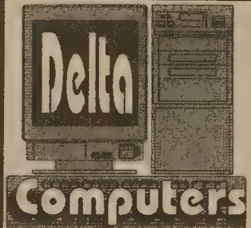

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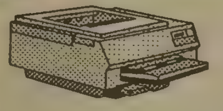

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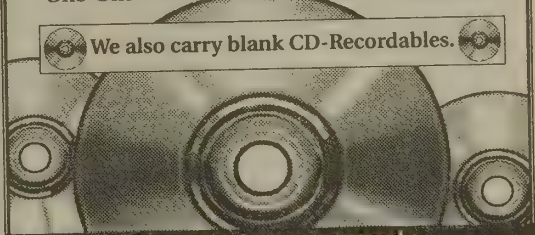

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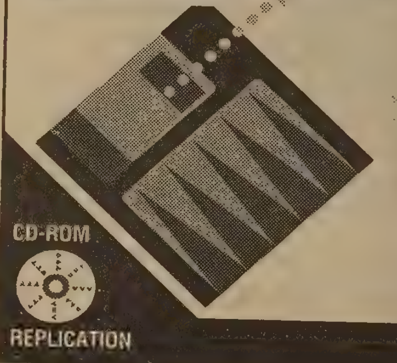

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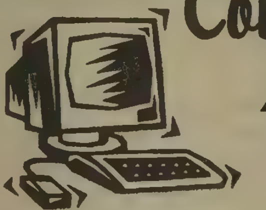

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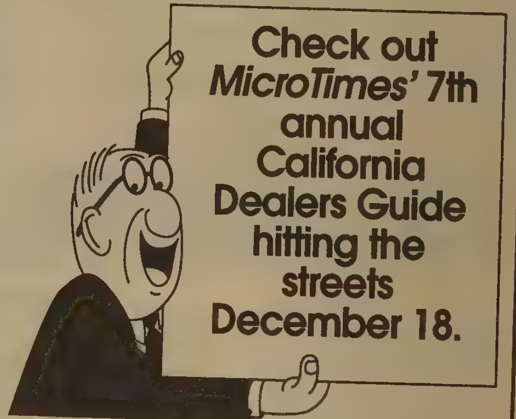

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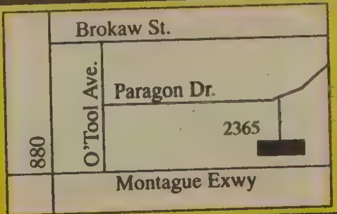

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P5-133C PCI (INTEL ENDEAVOR M/B)**	$214	$738	N/A	$1,008	$1,148	$1,388	$1,238	$1,398	$1,438	$1,598	$1,908
P5-120C PCI (INTEL ENDEAVOR M/B)**	214	568	N/A	838	978	1,218	1,068	1,228	1,268	1,428	1,738
P5-100C PCI (INTEL ENDEAVOR M/B)**	214	498	N/A	768	908	1,148	998	1,158	1,198	1,358	1,668
P5-90C PCI (INTEL ENDEAVOR M/B)**	214	458	N/A	728	868	1,108	958	1,118	1,158	1,318	1,628
P5-75C PCI (INTEL ENDEAVOR M/B)**	214	384	N/A	654	794	1,034	884	1,044	1,084	1,244	1,554
P5-133/256C PCI (INTEL ZAPPA TRITON M/B)	198	718	N/A	988	1,128	1,368	1,218	1,378	1,418	1,578	1,888
P5-120/256C PCI (INTEL ZAPPA TRITON M/B)	198	548	N/A	818	958	1,198	1,048	1,208	1,248	1,408	1,718
P5-100/256C PCI (INTEL ZAPPA TRITON M/B)	198	488	N/A	758	898	1,138	988	1,148	1,188	1,348	1,658
P5-90/256C PCI (INTEL ZAPPA TRITON M/B)	198	448	N/A	718	858	1,098	948	1,108	1,148	1,308	1,618
P5-75/256C PCI (INTEL ZAPPA TRITON M/B)	198	368	N/A	638	778	1,018	868	1,028	1,068	1,228	1,538
P5-133/256C PCI (ASUS TRITON M/B)**	198	718	N/A	988	1,128	1,368	1,218	1,378	1,418	1,578	1,888
P5-120/256C PCI (ASUS TRITON M/B)**	198	548	N/A	818	958	1,198	1,048	1,208	1,248	1,408	1,718
P5-100/256C PCI (ASUS TRITON M/B)**	198	488	N/A	758	898	1,138	988	1,148	1,188	1,348	1,658
P5-90/256C PCI (ASUS TRITON M/B)**	198	448	N/A	718	858	1,098	948	1,108	1,148	1,308	1,618
P5-75/256C PCI (ASUS TRITON M/B)**	198	368	N/A	638	778	1,018	868	1,028	1,068	1,228	1,538
P5-133/256C PCI	138	648	N/A	918	1,058	1,298	1,148	1,308	1,348	1,508	1,818
P5-120/256C PCI	138	478	N/A	748	888	1,128	978	1,138	1,178	1,338	1,648
P5-100/256C PCI	138	418	N/A	688	828	1,068	918	1,078	1,118	1,278	1,588
P5-90/256C PCI	138	388	N/A	658	798	1,038	888	1,048	1,088	1,248	1,558
P5-75/256C PCI	138	298	N/A	568	708	948	798	958	998	1,158	1,468
P5-60/256C PCI	100	208	N/A	478	618	858	708	868	908	1,068	1,378
486DX4-100/256C VLB-PCI (ASUS M/B)	138	224	N/A	494	634	874	724	884	924	1,084	1,394
486DX2-80/256C VLB-PCI (ASUS M/B)	138	178	N/A	448	588	828	678	838	878	1,038	1,348
486DX4-120C VLB	56	148	308	408	538	778	628	788	838	988	1,298
486DX4-100C VLB	56	128	288	388	518	758	608	768	818	968	1,278
486DX2-80C VLB	56	88	248	348	478	718	568	728	778	928	1,238
486DX2-66C VLB	56	84	244	344	474	714	564	724	774	924	1,234
486DLC-40 ISA	N/A	58	218	318	448	688	538	698	748	898	1,208
386DX-40/128C ISA	N/A	78	238	338	468	708	558	718	768	918	1,228

*BASIC SYSTEM: MOTHERBOARD & CPU, 1MB RAM, IDE WITH I/O, 1.44MB FDD, CASE WITH POWER SUPPLY, AND 101-KEY KEYBOARD.

**Please Call for Pipelined Burst Cache and EDO Memory Upgrade

HI-TECH BEST BUY SYSTEM

- Motherboard w/CPU
- **4MB RAM (Please call for upgrade)**
- **540MB Fast IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- PCI, VLB or ISA Controller with I/O
- Enhanced Case w/Power Supply
- PCI, VLB or ISA SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor***
- 101-Key Enhanced Keyboard
- Free DOS 6.x and Mouse w/pad

486DLC-40/128K ISA	$748
486DX2-66/128K VLB	788
486DX2-80/128K VLB	798
486DX4-100/128K VLB	838
486DX4-120/128K VLB	868
P5-60/256K VLB-PCI	908
P5-75/256K PCI	998
P5-90/256K PCI	1,088
P5-100/256K PCI	1,118
P5-120/256K PCI	1,178
P5-133/256K PCI	1,348

UPGRADES

Microsoft Windows 95 Full Copy	Add $93
Microsoft Windows 3.x	Add 48
635MB /850MB Hard Drive	Add 10 / 30
15" Non-Interlaced Monitor	Add 80

HI-TECH DREAM SYSTEM

- Motherboard w/CPU
- **8MB RAM (Please call for upgrade)**
- **850MB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- VLB or PCI SVGA Card w/1MB
- **14" SVGA .28 Non-interlaced Monitor***
- Keytronics Keyboard
- Enhanced Case w/Power Supply
- Free DOS 6.x and Mouse w/Pad

486DX2-66/256K VLB	938
486DX2-80/256K VLB	948
486DX4-100/256K VLB	988
486DX4-120/256K VLB	1,018
P5-60/256K VLB-PCI	1,058
P5-75/256K PCI	1,138
P5-90/256K PCI	1,228
P5-100/256K PCI	1,258
P5-120/256K PCI	1,328
P5-133/256K PCI	1,488

UPGRADES

Microsoft Windows 95 Full Copy	Add $93
Microsoft Windows 3.x	Add $48
1.2GB Hard Drive	Add 70
15" Non-Interlaced Monitor	Add 80
28.8 Internal Fax Modem	Add 102

HI-TECH WINNER SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM (Please call for upgrade)**
- **1.2GB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth 64 SE VLB or PCI with 1MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- DOS 6.x and Microsoft Compatible Mouse w/Pad

P5-60/256K VLB-PCI	$1,228
P5-75/256K PCI	1,308
P5-90/256K PCI	1,398
P5-100/256K PCI	1,438
P5-120/256K PCI	1,498
P5-133/256K PCI	1,668
P5-75/256K PCI (Intel Zappa)	1,378
P5-90/256K PCI (Intel Zappa)	1,468
P5-100/256K PCI (Intel Zappa)	1,498
P5-120/256K PCI (Intel Zappa)	1,568
P5-133/256K PCI (Intel Zappa)	1,728

UPGRADES

Microsoft Windows 95 Full Copy	Add $93
Microsoft Windows 3.x	Add $48
17" Non-Interlaced Monitor	Add 240
28.8 Internal Fax Modem	Add 102

HI-TECH SUPER P5 SYSTEMS

- Intel Pentium™ Processor with Fan
- **8MB RAM (Please call for upgrade)**
- **1.2GB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth 64 PCI with 2MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- DOS 6.x and Microsoft Compatible Mouse w/Pad

P5-75/256K PCI (Intel Endeavor)*	$1,508
P5-90/256K PCI (Intel Endeavor)*	1,598
P5-100/256K PCI (Intel Endeavor)*	1,638
P5-120/256K PCI (Intel Endeavor)*	1,698
P5-133/256K PCI (Intel Endeavor)*	1,868
P5-75/256K PCI (Asus M/B)*	1,428
P5-90/256K PCI (Asus M/B)*	1,518
P5-100/256K PCI (Asus M/B)*	1,558
P5-120/256K PCI (Asus M/B)*	1,618
P5-133/256K PCI (Asus M/B)*	1,788

*Please call for Pipelined cache upgrade

UPGRADES

Microsoft Windows 95 Full Copy	Add $93
Microsoft Windows 3.x	Add $48
17" Non-Interlaced Monitor	Add 240
28.8 Internal Fax Modem	Add 102

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HWY 880
Centre Pointe Dr
Capitol Ave
HWY 680
Montague Expressway

Phone (408) 262-8688
1558 & 1562 Centre Pointe Drive
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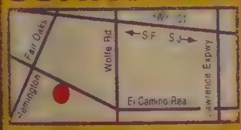
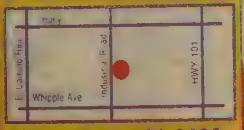
SUNNYVALE



Phone (408) 732-8688
730 East El Camino Real
Sunnyvale, CA [illegible]

PENINSULA



Phone (415) 508-8688
981B Industrial Road
San Carlos, CA 94070 Fax (415) 508-0383

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Mon-Fri: 8:30am-6pm
9:30am-7pm (Sunnyvale)
Sat: 10am-4pm

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Mon-Fri: 9am-5:30pm
Sat: 10am-3:30pm
(Milpitas & San Carlos)

HI-TECH USA
ALWAYS THE BEST

TERMS AND CONDITIONS

1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software No refunds after 30 days.
9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval

* Monitor viewable size may be smaller than advertised size.

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(408) 732-8688 Sunnyvale
(415) 508-8688 San Carlos

CASE W/POWER SUPPLY

200W / 230W Power Supply	$25 / 29
250W / 300W Power Supply	37 / 55
Mini Tower Case w/200W Power Supply	**35**
Desktop AT Case w/200W Power Supply	45
Medium Tower Case w/230W Power Supply	57
Full Tower Case w/250W Power Supply	76
APC UPS	
Back 280VA / 400VA / 600VA	98 / 138 / 228
Back 900VA / 1200VA	330 / 418
Smart 450VA / SU700	268 / 328
Smart SU1000 / SU1400	448 / 548
Optiquest UPS 280E / 420E	108 / 158

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I/O (2S / 1P / 1G)	**$9**
IDE 2FD/2HD with 2S/1P/1G	**10**
PCI IDE with I/O	**31**
VLB IDE with I/O	**14**
IDE I/O (2S/1P) w/16550 UART Chip	25
VLB IDE I/O (2S/1P) w/16550 UART Chip	**19**

adaptec

1522 / 1542CF (SCSI)	$72 / 156
1542CP / 1542CPK (SCSI)	164 / 224
2825 VLB / 2842 VLB (SCSI)	108 / 162
2940 PCI / 2940W (SCSI)	186 / 214

DATA TECHNOLOGY CORPORATION

DTC 2280 / 228E ISA	$14/20
DTC 2278E VLB IDE W/16550 UART Chip	25
DTC 2278D VLB IDE I/O Dual Ports	18

PROMISE TECHNOLOGY, INC.

Promise DC-200 IDE Cache Controller	**$84**
Promise DC-2300 Plus VLB IDE Fast I/O	44
Promise DC-4030 VLB IDE Cache Controller	**80**
Promise DC-4030+ VLB EIDE	**113**
Promise DC-5030 PCI IDE 0-16MB Cache	**123**

HARD/FLOPPY DRIVES

Quantum™ Maxtor® Seagate MICROPOLIS CONNER WESTERN DIGITAL

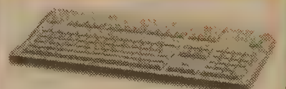
HARD DRIVES

270MB IDE / 340MB IDE	$110 / 118
540MB IDE / 635MB IDE	**158 / 164**
850MB IDE / 1.0GB IDE	**178 / 210**
1.2GB IDE	**244**
540MB SCSI / 1.0GB SCSI	164 / 224
2.0GB SCSI	**548**

FLOPPY DRIVES

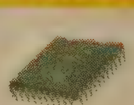
Epson, SONY or NEC 1.2 / 1.44 FDD	**$30 / 24**
Teac 1.2 /1.44 Floppy Drive	38 / 27
TEAC Dual Floppy Drive	**78**
3.5" DS/HD High Density Diskettes 10 Pack	**4**

KEYBOARDS



101 Enhanced Keyboard	$13
FOCUS	
FK2001 101-Key Click	**27**
FK6000 102-Key	**26**
FK7000 w/Trackball	29
FK8000 w/Calculator	34
FK9000 Programmable w/Calculator	41
Keytronics 101-Key Enhanced	**17**
Keytronics 104-Key for Windows 95	**26**
Mitsumi 101-Key Enhanced	**13**
Mitsumi 101-Key for Windows 95	**20**
Maxiswitch 101-Key Enhanced	**19**
Maxiswitch Pro II 124 Key Programmable	43
Microsoft Natural Key	**58**
NORTHGATE	
OMNI 101 NI / 102 / Ultra	**$59 / 60 / 76**

MATH COPROCESSORS



387DX-40 Tube / Box	**$19 / 30**
387DX-33 Tube / Box	**10 / 30**
387SX-40 Tube / Box	19 / 30
387SX-33 Tube / Box	**19 / 30**

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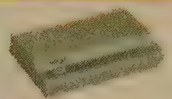
256KB / 1MB / 4MB (30 Pin)	**13 / 33 / 120**
4MB/8MB/16MB (72-Pin)	**118 / 238/464**
4MB/8MB/16MB (EDO)	**128 / 250/532**

MODEMS & FAXES



Fax Modem 14,400 Internal	**$37**
Fax Modem 14,400 w/Voice Internal	**45**
Fax Modem 14,400 External	54
Fax Modem 28.8 with V.34 Int.	**102**
Fax Modem 28.8 w/Voice Mail & Wavetable Sound Card All In One	**198**
Fax Modem 28.8 with V.34 Ext	123
PCMCIA Fax Modem 14,400 w/Voice	84
PCMCIA Fax Modem 28,800 w/V.34	168
HAYES	
Accura 14.400 Int/Ext	**$84 / 99**
Accura 28.8 w/V.34 Int/Ext	**172 / 202**
Optima 28.8 w/V.34 Int/Ext	**358 / 408**
PRACTICAL PERIPHERALS	
14.400 Fax Modem Int/Ext	**74 / 90**
28.8 w/V.34 Fax Modem Int/Ext	**160 / 179**
US ROBOTICS	
Sportster Si 14,400 Fax Modem Int/Ext	**$48/64**
Sportster 28.8 Fax Modem External	158
Sportster 28.8 Fax Modem w/V.34 Int	**176**
Sportster 28.8 Fax Modem w/V.34 Ext	194

MOUSE/SCANNERS

3-Button Mouse Microsoft Compatible	**$6**

LOGITECH

First Mouse (OEM / Retail)	$12 / 25
Mouseman Serial (OEM / Retail)	**22 / 44**
Mouseman Bus (Retail)	**58**
Trackman (OEM / Retail)	44 / 72

Microsoft

Microsoft Mouse Serial (w/System)	**$22**

MONITORS*

14" Mono	**$66**
14" VGA Mono	78
14" SVGA 1024•768 .39	**178**
14" SGA 1024•768 .28 NI	**204**
15" SVGA 1280•1024 .28 (KFC)	284
17" SVGA 1280•1024 .28 (KFC)	**524**

CTX

14" Super VGA 1024•768 .28 NI	$228
15" Super VGA 1280•1024 .28	**328**
17" Super VGA 1280•1024 .28	618

IIYama (IDEK)

MF-8115 15" 1280•1024 .28	$408
MF-8617E 17" 1600•1200 .26	728
MF-9017E 17" 1600•1200 .25	824
MF-9021E 21" 1600•1200 .30	1,718
MF-8221E 21" 1600•1200 .28	1,888

Impression

3E Plus 14" 1024•768 .28 NI	$204
5E 15" 1280•1024 .28 NI	286
7E 17" 1280•1024 .28 NI	538

MAG INNOVISION

15FE 15" 1280•1024 .28	**$344**
17F 17" 1280•1024 .26	**614**

NANAO®

F2-17 .28 / F2-17EX .26	798 / 924
T2-17TS .25 / T2-17 .25	956 / 1,216
T2-20 .30	1,878

NEC

Multisync XV 15 / XE 15 / XP 15	$448 / 538 / 564
Multisync XV 17 / XE 17 / XP 17	718 / 968 / 998
Multisync XE 21 / XP 21	1,700 / 2,050

NOKIA

449E 15" 1280•1024 .28	$424
447L 17" 1024•768 .28	688
447X 17" 1600•1280 .25	948
445X 21" 1600•1280 .28 TCO	1,998

SONY

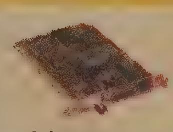
15SF 15" 1280•1024 .25	**$464**
17SF 17" 1280•1024 .25	**808**
20SE1 20" 1600•1200 .30	1,818

ViewSonic®

14ES 14" 1024•768 .28	**$254**
15ES 15" 1024•768 .28	**348**
15G 15" 1280•1024 .28 60MHz	396
15GS 15" 1280•1024 .27	418
15GA 15" 1280•1024 .27 w/Speakers	488
17EA 17" 1280•1024 .28	628
17PS 17" 1600•1280 .25 Green	814
17GS 17" 1280•1024 .28 Green	**678**
20G 20" 1600•1280 .28	1,144
21PS 21" 1600•1280 .25	**1,560**

* Monitor Viewable size may be smaller than advertised size

NETWORKS



16 BIT Ethernet Cards (Coax)	**$20**
16 BIT Ethernet Cards (10 Base-T)	**20**
16 BIT Ethernet Cards (Combo)	**21**

3Com

3C509 ELINK III Coax / 5 pack	$89 / 442
3C509 ELINK III TP / 5 pack	76 / 404
3C509 ELINK III Combo / 5 pack	94 / 480
3C590 PCI TP / Combo	108 / 128
LinkBuilder 8 Port Hub	186
LinkBuilder 12 Port Hub / 24 Port Hub	478 / 838

ARCnet

Bus Topology ISA Card (8 BIT / 16 BIT)	$44
Star Topology ISA Card (8 BIT / 16 BIT)	44

Hubs and Repeaters

8-Port 10 Base T HUB (w/BNC)	$94
16-Port 10 Base T HUB (w/BNC, AUI)	186

Novell 4.1 (CD)

5 / 10 / 25 User	$338 / 748 / 1,198
50 / 100 / 250 User	1,398 / 1,698 / 2,648

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CITIZEN™

GSX-190 (9-Pin) / GSX-220 (24-Pin)	**$156 / 128**
GSX-230 (24-Pin)	**200**
Color Option for Citizen Printers	48

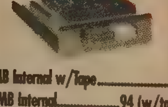
HEWLETT PACKARD

HP 600 / 600C	$298 / 318
HP 660C / 850C	408 / 558
HP 4 Plus	1,388
HP 5L-FS / 5P	528 / 868

Panasonic Office Automation

KX-P1150 (9-Pin) /2023 (24-Pin)	**$128 / 188**
KX-P 3123 (24-Pin)	**248**
Color Upgrade Kit KX-PCK11	52

TAPE BACKUPS



AIWA 250MB Internal w/Tape	**$64**
Conner 250MB Internal	**94 (w/tape 104)**
Conner 420MB Internal w/Tape	**124**
Conner 800MB Internal w/Tape	**142**
Conner 850MB Internal w/Tape	178
Conner 4.0GB SCSI w/Tape	**498**

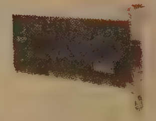
COLORADO MEMORY SYSTEMS

DJ-35 350MB Internal	**112**
T-1000 800MB Internal	**148 (w/tape 168)**
DJ-50 1.4GB Internal	**214**
Tape QIC-80 3M DC2120	**13**
JT-35C Trakker 350MB Ext	218

SOFTWARE

Microsoft Windows 95 Full Copy (w/system)	$93
Microsoft DOS 6.x (with System)	36
Microsoft Office Professional 7.0 OEM (with System)	218
Microsoft Windows 3.x (with System)	46
Microsoft Windows for Workgroup (with System)	54

VGA CARDS



MGP Card	$10
VGA 256K	26
VGA 512K	34
SVGA 1MB 1024•768 16 BIT	**53**
Cirrus Logic VLB w/1MB	**58**
S3-805 VLB w/1MB	**60**
Trident VLB w/1MB	**60**
Trident PCI w/1MB	**60**

ATI TECHNOLOGIES INC.

Ultra Plus PCI / VLB 2MB DRAM (MACH 32)	108
Ultra Pro ISA 2MB VRAM (MACH 32)	178
WinBoost PCI 1MB DRAM (Mach 64)	**114**
WinBoost VLB 1MB DRAM (Mach 64)	**118**
WinBoost PCI 2MB DRAM (Mach 64)	**154**
WinBoost VLB 2MB DRAM (Mach 64)	**158**
WinTurbo 64 PCI 2MB VRAM (Mach 64)	**230**
WinTurbo 64 VLB 2MB VRAM (Mach 64)	**230**
WinTurbo 64 PCI 4MB VRAM (Mach 64)	**382**
WinTurbo 64 VLB 4MB VRAM (Mach 64)	**382**

DIAMOND

Stealth 24 VLB 1MB (DRAM)	**$68**
Stealth SE PCI 1MB (DRAM)	**82**
Stealth SE VLB 1MB (DRAM)	**82**
Stealth 64 PCI 1MB (DRAM)	**104**
Stealth 64 VLB 1MB (DRAM)	**108**
Stealth 64 PCI 2MB (DRAM)	**140**
Stealth 64 VLB 2MB (DRAM)	**144**
Stealth 64 PCI 2MB (VRAM)	**234**
Stealth 64 VLB 2MB (VRAM)	**208**
Stealth 64 PCI 4MB (VRAM)	**376**
Stealth 64 VLB 4MB (VRAM)	**384**
Viper-Pro PCI 2MB (VRAM)	**332**
Viper-Pro PCI 4MB (VRAM)	**456**

MIRO

12SD PCI 1MB DRAM	**$78**
20SD PCI 2MB DRAM	**140**
20SV PCI 2MB VRAM	**216**

Number 9

#9 FX Vision 330 PCI 1MB (DRAM)	$112
#9 FX Motion 531 PCI 2MB (DRAM)	188
#9 FX Motion 771 PCI 2MB (VRAM)	246

ORCHID

Kelvin PCI / VLB (64-Bit) 1MB	**$93**
Kelvin PCI / VLB (64-Bit) 2MB	**138**
Fahrenheit 64 PCI 1MB (VRAM)	95
Fahrenheit 64 VLB 1MB (DRAM)	95
Fahrenheit 64 PCI 2MB (DRAM)	128
Fahrenheit 64 VLB 2MB (DRAM)	136
Fahrenheit 64 Pro PCI 2MB (VRAM)	230
Fahrenheit 64 VLB 2MB (VRAM)	230
Fahrenheit 64 Pro PCI 4MB (VRAM)	358
Fahrenheit 64 VLB 4MB (VRAM)	358

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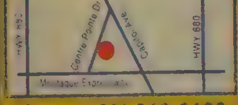

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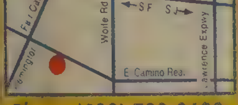

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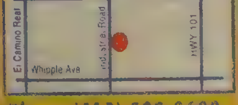

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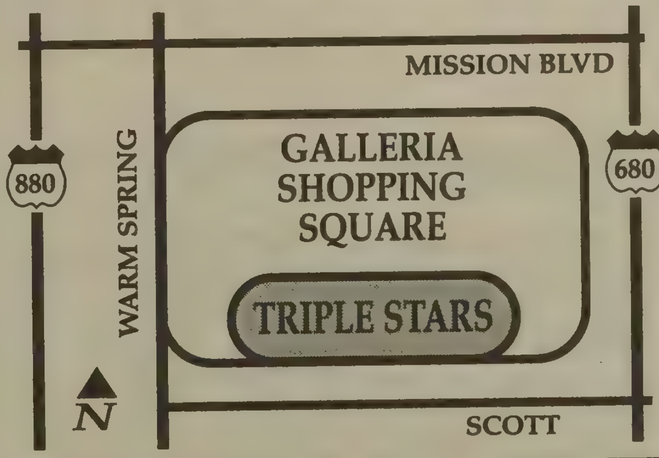

Multimedia In Your Email *continued from page 250*

important. Receiving a snippet of video that should have arrived ten seconds ago makes for a conversation that is, at best, hard to follow.

But electronic mail doesn't occur in real time: it doesn't matter terribly if the message you sent is received in ten seconds or five minutes. So, with multimedia email, the information can travel at a more leisurely pace. If packets arrive out of order, they can be reassembled in sequence with no loss of continuity. So when your email program barks that mail has arrived, you'll receive a clear message, complete with video and audio.

Multimedia email works with a slow Internet connection—like your 14.4 modem. Videoconferencing doesn't.

Some people say that in the Internet's middle future, your service provider may charge not based on how long you're online, but based on how much information you send and how quickly you want that data to arrive. Under this scheme, real-time audio and video would use a lot of bandwidth requiring fast distribution to the recipient—expensive. On the other hand, a multimedia email message would cost less to send—although it might use the same amount of bandwidth, data could be sent at a lower priority because precise timing is not critical. ■

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For more information about MIME, read the comp.mail.mime FAQ, available on the Internet at *ftp://rtfm.mit.edu/pub/usenet-by-group/news.answers/mail/mime-faq/* and *http://www.cis.ohio-state.edu/text/faq/usenet/mail/mime-faq/top.html*

For more information about VideoMail, check out *http://www.spyglass.com/~dtrinka/videomail.html*

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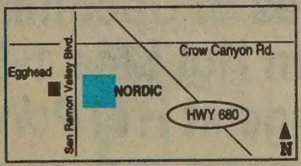
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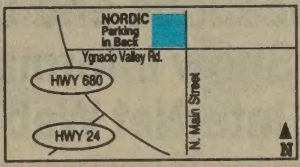
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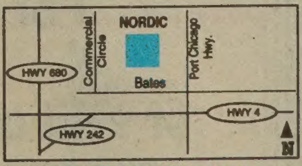
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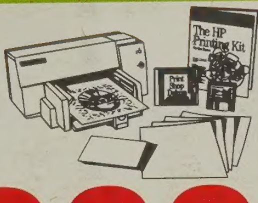

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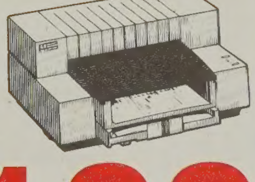

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- Optional MAK or Infrared adapters (Sold Separately)

#2081713

$269*

* After $30 mail-in rebate. In-store price $299 plus tax.

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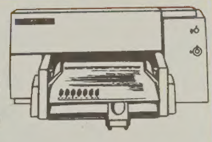
DeskWriter 600 for Macintosh®



- New Inks for sharper, blacker blacks
- Up to 4 Pager per minute in EconoFast Mode
- 600 dpi Plus Resolution Enhancement Technology for crisp clear printing

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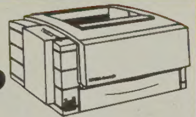
LaserJet 5P



- True 600 x 600 dpi laser printing • Lots of font choices
- Two paper sources, 3" x 5" to legal sizes, wrinkle-free labels, envelopes and card stock
- 6 pages per minute and a 20MHz processor
- Reliable, expandable, shareable, versatile, value-packed printing

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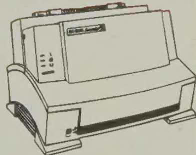
LASERJET 5L



HP's Most Efficient Personal Laser Printer

- Laser printer for the PC
- 600 x 600 dpi and 26 scalable typefaces
- Prints 4 pages per minute
- 1MB memory, doubles with MEt
- 100-sheet paper tray easily prints postcards to legal size
- HP PrintSmart for simple, complete Windows® printing
- #2081724

$479

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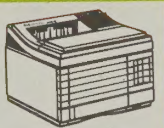
LaserJet 4M Plus for Macintosh®



The BEST print quality in the industry

- 12 pages per minute printing for Macintosh and mixed MAC/PC environments
- True 600 dpi output
- Adobe™ PostScript™ Level 2 and enhanced HP PCL 5 printer languages.
- 80 scalable typefaces - 35 Adobe Type1, 35 Intellifont, 10 TrueTypeTM
- 6MB standard, expandable up to 38MB
- 250 sheet paper tray and 10-envelope multi-purpose tray

#1914571

$1879

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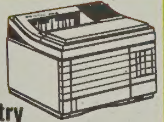
LaserJet 4 Plus



The BEST print quality in the industry

- 12 pages per minute engine and 25MHz RISC processor for faster printing
- True 600 dpi print quality for clear, crisp text and graphics
- Resolution Enhancement Technology and microfine toner for superior output quality
- Easy to set up and use
- Duplex option (sold separately)

#1908697

$1365

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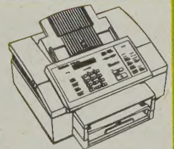
OfficeJet LX



- Fully-integrated printer, fax and copier turns your your desktop into an office
- High-quality plain-paper output
- 24-page memory handles incoming faxes while printing
- Automatic switching among functions
- One-year warranty with overnight HP Express Exchange
- PC faxing directly from Windows
- Convenience scanning
- Ease of managing the HP OfficeJet LX fromyour PC

#2022026

$598*

* After $100 mail-in rebate. In-store price $698 plus tax.

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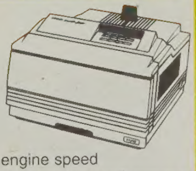
LaserJet 4V



- HP's fastest desktop printer
- Crisp 600 x 600 dpi print quality • 16-ppm engine speed
- 33Mhz RISCprocessor with I/O buffering for unparalled performance.
- Handles a wide range of paper sizes including 11 x 17.

#1952320

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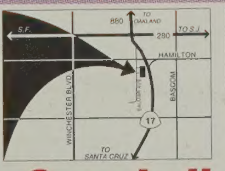

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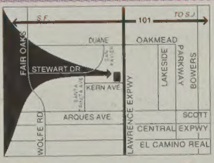

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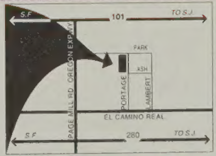

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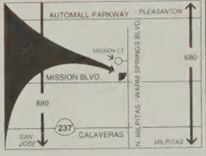

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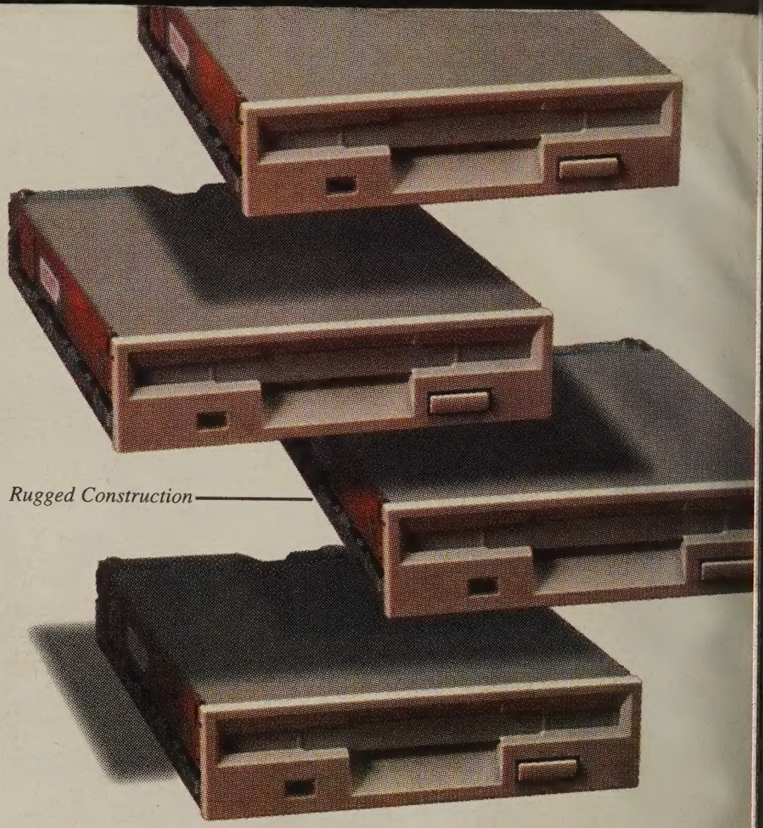

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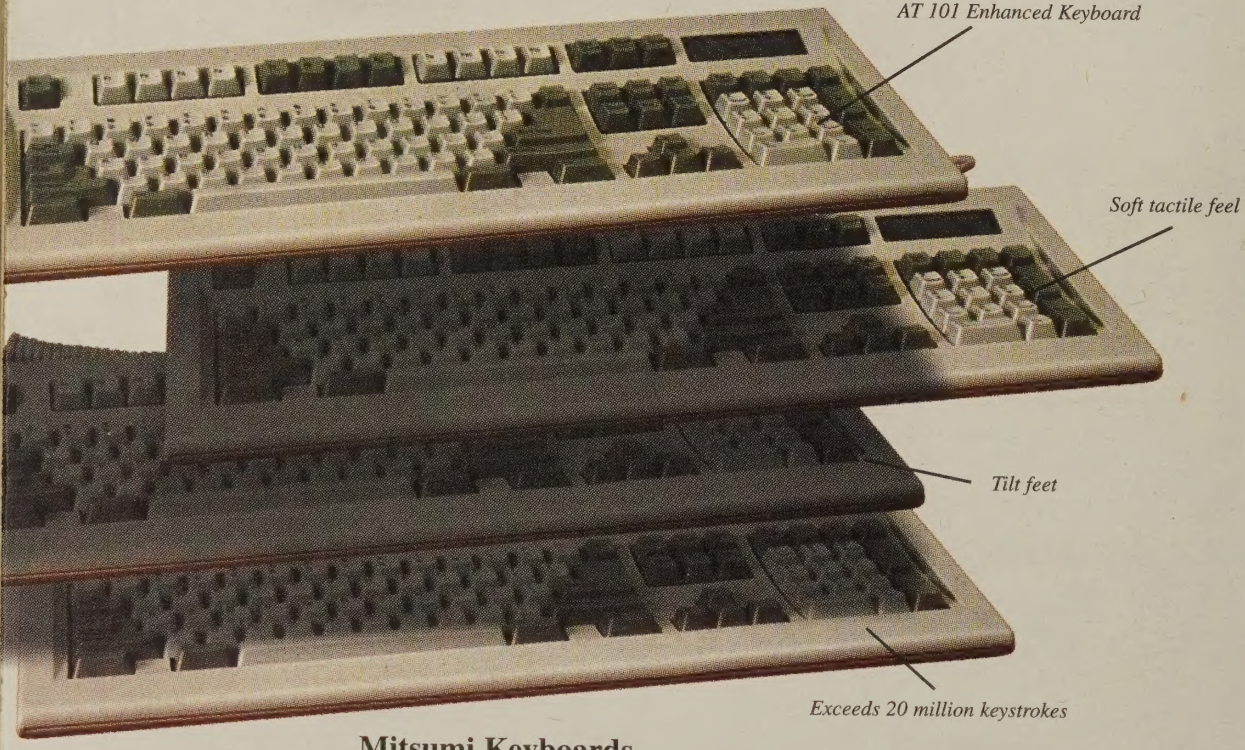

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